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Seasonal Salinity, Temperature and Density Data for Tuktoyaktuk Harbour and Mason Bay, N.W.T., 1980 to 1988

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PREFACE

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ABSTRACT

Hopky, G.E., D.B. Chiperzak, M.J. Lawrence, and L. de March. 1990. Seasonal salinity, temperature and density data for Tuktoyaktuk Harbour and Mason Bay, N.W.T., 1980 to 1988. Can. Data Rep. Fish. Aquat. Sci. 801: v + 231 p.

This report contains seasonal salinity, temperature and density (CTD) data collected from 1980 to 1988 in two embayments - Tuktoyaktuk Harbour and Mason Bay - along the south east Beaufort Sea coast. Sampling during the ice cover period was usually conducted in March. Sampling was conducted more frequently throughout the open water period of June to September, but only in Tuktoyaktuk Harbour. Ice thickness and secchi depth values are also reported.

Prior to 1984 CTD profile data were determined primarily by analysis of bottle cast samples. Salinity values for bottle cast samples were determined with an Autosal Model 8400 salinometer. From 1984 to 1988 CTD profile data was measured primarily with a Guildline Model 8870 probe. The total number of profiles measured during the ice cover and open water periods in Tuktoyaktuk Harbour were 47 and 117, respectively. In Mason Bay 19 profiles were measured during the ice cover period.

In Mason Bay the range in maximum depths of profiles measured from the ice surface was from 4.4 to 19.6 m. Salinity and temperature measurements ranged from 3.19 to 25.20, and from -0.70 to 3.28°C, respectively. In Tuktoyaktuk Harbour the range in maximum depths of profiles measured from the ice and open water surfaces were, respectively, from 1.9 to 23.0 m, and from 0.0 to 26.0 m. The ranges in salinity and temperature during the ice cover period were from 0.00 to 30.24, and from -0.94 to 3.91°C, respectively. The corresponding ranges during open water were from 0.07 to 31.31, and from 0.17 to 16.25°C.

Key words: Arctic; embayments; fresh water; saline water; thermocline; halocline; pycnocline; oceanographic data; secchi disk depth.

RÉSUMÉ

Hopky, G.E., D.B. Chiperzak, M.J. Lawrence, and L. de March. 1990. Seasonal salinity, temperature and density data for Tuktoyaktuk Harbour and Mason Bay, N.W.T., 1980 to 1988. Can. Data Rep. Fish. Aquat. Sci. 801: v + 231 p.

Le présent rapport porte sur les données saisonnières sur la salinité, la température et la densité (CTD) recueillies de 1980 à 1988 dans le havre de Tuktoyaktuk et la baie Mason, situés sur le littoral sud-est de la mer de Beaufort. Pendant la période de concentration de glace, l'échantillonnage a généralement été affectué en mars. Par contre, l'échantillonnage a été effectué plus fréquemment pendant toute la période d'eau libre allant de juin à septembre, mais seulement dans la havre de Tuktoyaktuk. Des données sur l'épaisseur de la glace et la transparence au disque Secchi sont aussi présentées.

Avant 1984, les données à la base des profils CTD étaient surtout obtenues par analyse des échantillons recueillis par palanquées; la salinité était déterminés à l'aide d'un salinomètre Autosal (modèle 8400). De 1984 à 1988, les données CTD ont été en général obtenues à l'aide d'une sonde Guildline (modèle 8870). Le nombre total de profils obtenus pendant les périodes de concentration de glace et d'eau libre dans le havre de Tuktoyaktuk s'élève respectivement à 47 et 117. Dans la baie Mason, 19 profils ont été obtenus pendant la période de concentration de glace.

Dans la baie Mason, l'écart des profondeurs maximales des profils obtenus à la surface de la glace variait de 4,4 à 19,6 m; la salinité et la température allaient de 3,19 à 25,30 et de -0,70° à 3,28°C, respectivement. Dans le havre de Tuktoyaktuk, l'écart des profondeurs maximales des profils obtenus à la surface de la glace et de l'eau libre allait de 1,9 à 23,0 m et de 0.0 à 26,0 m respectivement. Pendant la période de concentration de glace, la salinité et la température variaient de 0,0 à 30,24 et de -0,94° à 3,91°C, respectivement. Ces valeurs variaient de 0,07 à 31,31 et de 0,17° à 16,25°C, respectivement, pendant les périodes d'eau libre.

Mots-clés: Arctique; baies; eau douce; eau saline; thermocline; halocline; pycnocline; données océanographiques; profondeur du disque de Secchi.

INTRODUCTION

The salinity, temperature and density (CTD) data presented in this report are from four different research programs conducted from 1978 to 1988 by staff of the Department of Fisheries and Oceans, Central and Arctic Region. All data were collected in, or very near to, two coastal embayments located along the south east coast of the Beaufort Sea (Fig. 1) in the Mackenzie River estuary - Tuktoyaktuk Harbour (Fig. 2) and Mason Bay (Fig. 3), N.W.T. The purpose of this report is to compile all the CTD data from these programs into one document.

Beginning in 1978 staff of the Region's Fish Habitat Section began a study of fish resources and their habitat requirements along the south east Beaufort Sea coast, including Tuktoyaktuk Harbour (Bond 1982; Bond and Erickson 1985; Lawrence et al. 1984; Hopky and Ratynski 1984). Tuktoyaktuk Harbour was selected because of its significance as a major northern harbour, used primarily in relation to hydrocarbon exploration and development activity and for resupply operations for the western and central arctic communities, and as the location of a significant domestic fishery by inhabitants of the adjacent Hamlet of Tuktoyaktuk. In support of this program and, in particular, to assess the significance of a planned dredging of the harbour entrance and offshore access channel, physical and chemical data were collected by one of the authors, L. de March, including CTD data for the open water and ice cover periods of 1980 to 1982.

Incidental CTD data were collected in 1983 as part of a benthic invertebrate survey program in Tuktoyaktuk Harbour. This was conducted by another of the authors, M.J. Lawrence.

Finally, CTD data were collected as part of two research programs of the Critical Estuarine and Marine Habitat Project B2 of the Northern Oil and Gas Action Program (NOGAP), from 1984 to 1988. The primary purpose of Project B2 was to advance the Department's ability to deal with the regulatory and advisory aspects of impending hydrocarbon development, production and transportation in the western Arctic. Its main objective was to provide background data for assessing the implications of these activities on critical estuarine and marine habitats of the Canadian Arctic Coastal Shelf, by implementing a number of Subprojects.

Subproject B2.1, Beaufort Shelf Fish Habitat Research, focused on the identification and characterization of estuarine and marine fish habitats on the Beaufort Sea Shelf. The measurement of CTD data assisted in the delineation of such habitats and represented one component of a suite of physical and chemical data collected. Tuktoyaktuk Harbour was included in this study primarily because of its significance, as noted above, but also because as an embayment it provided a valuable contrast to results observed in the shelf studies. CTD data from the Beaufort Sea Shelf for the open water and ice cover periods of July, 1984, to March, 1988, are reported elsewhere (Hopky et al. 1986, 1987, 1988a, 1988b). A single CTD profile was measuered in Mason Bay in support of the B2.1 Subproject and is reported elsewhere (Hopky et al. 1988b). All CTD data reported here for the B2.1 Subproject were collected in Tuktoyaktuk Harbour during the open water periods of 1984 to 1987.

The balance of the CTD data reported here were collected as part of the NOGAP B2.3 Subproject, Nearshore Benthic Monitoring, Beaufort Shelf. The objectives of this program were to characterize both the meiobenthic and macrobenthic invertebrate communities in coastal embayments of the south east Beaufort Sea, and to assess the feasibility of utilizing some component of these communities to monitor possible impacts from industrial development.

Embayments such as Tuktoyaktuk Harbour and Mason Bay have restricted water exchange with the adjacent shelf waters. It is in these locales where aquatic habitat is likely to be most significantly affected by the possible impacts of industrial development. CTD data were relevant to the B2.3 Subproject because the embayments stratify (fresh, brackish and marine) and the benthic community was expected to reflect this. Sampling was conducted during the ice cover period of March only, 1985 to 1988.

METHODS

The methods of data collection and processing were generally similar for the four research programs, with exceptions noted. Methods used to collect and process CTD data for the NOGAP B2.1 and B2.3 Subprojects are comparable to those previously reported for the shelf component of the B2.1 Subproject (Hopky et al. 1986, 1987, 1988a, 1988b).

DATA COLLECTION

Sampling platforms and positioning

For the ice cover periods of 1980 to 1982 sampling stations on Tuktoyaktuk Harbour were reached by trucks or tracked vehicles. Throughout the open water periods of 1980 to 1983 stations were sampled from various small craft. Stations were located by reference to bathymetric charts and visual triangulation to known landmarks. This was facilitated by both the harbour shape (Fig. 2) and extensive

industrial development along the shoreline. No estimates of station repositioning error were made, but were probably on the order of ±0.2 km.

CTD profiles for the B2.1 Subproject were collected in Tuktoyaktuk Harbour during the open water periods of 1984 to 1987 from the M. V. Sequel, a 12 m wooden hulled vessel. Stations were located using a combination of visual and radar (Furuno Model CR240) fixes to shore, bathymetric charts and a JRC Model JLE-3850 satellite navigator with a nominal accuracy of ±0.1 km. This value is probably a reasonable estimate of the station repositioning error.

During the ice cover period of March, 1985 to 1988, CTD profiles for the B2.3 Subproject were collected from a variety of platforms. In 1985, the preliminary survey year for the program, Tuktoyaktuk Harbour was sampled by use of trucks and tracked vehicles. The single CTD profile measured in Mason Bay in 1985 (station 85058) was reached by a chartered Twin Otter (DH6) aircraft. In March of 1986 to 1988 all stations were sampled from an on site laboratory that was attached to a completely self contained mobile field camp.

In March, 1985, the location of stations in Tuktoyaktuk Harbour was estimated by using the methods described above for the 1980 to 1982 research program. The position of station 85058 was estimated (±0.1 m) from the plane's Global Navigation Positioning System.

The sampling design adopted for the remainder of the B2.3 Subproject required that station locations, once established in 1986, be returned to for re-sampling in subsequent years with as small a repositioning error as possible. An infrared rangefinding system (Sokkisha Red Model 2 L) in conjunction with a theodolite (Wild TI 70 Series) was used to achieve this objective.

The following procedure was employed: In 1986 stakes were located at known locations along the shoreline of both embayments (Fig. 2 and 3). Tripod-mounted triple prism light-reflecting targets (to reflect the rangefinder's infrared signal) were positioned at the stake locations. Station positions were first established by trial and error without the aid of the rangefinder, using the criteria of locating stations within specified depth strata. The rangefinder and theodolite were then used to determine the station-to-target distance and the angle between targets, respectively (Table 1). This estimate of the station location is henceforth referred to as the "pin location". In 1987 and 1988 the triple prism targets were repositioned at the shoreline stake locations. Pin locations were then relocated by an iterative process - a series of intermediate "instrument locations" - until the station-specific angles and distances measured in 1986 were approximately achieved (Table 1).

There are several possible error sources in this positioning procedure. Instrument error in the rangefinder was minimized by annual recalibration, and rangefinder error due to repeated measurements of the same target was insignificant (< 1 mm). Measurement error resulting from imprecise instrument adjustment for ambient temperature and pressure conditions did not exceed 2.0 cm.

The estimated error in the repositioning of the targets in 1987 and 1988, relative to 1986, is shown in Table 2. In one case the stake for a target location (T02) had been removed and the target location was approximated by repositioned through reference to other nearby landmarks. The other sources of variance in the repositioning of the targets were due largely to differences in prevailing snow conditions from one year to the next making it difficult to precisely reposition the target in the dense, deep snow-pack.

There were also errors introduced as a result of varying degrees of interpolation and/or extrapolation required to determine the pin location based upon the final instrument location. In most cases the pin location was within a step-or-two of the final instrument location (Table 1). For all intents and purposes, these two locations are the same. Exceptions to this "step-or-two" positioning protocol are noted in Table 1 where the required distance adjustments to the final instrument location are shown in parenthesis. These distance adjustments were made either toward (-) or away (+) from the relevant target to determine the pin location.

In three instances target-to-instrument distances exceeded the capability of the rangefinder due to heavy ice crystal haze in the atmosphere. In these instances the intertarget angle in combination with one target-to-instrument distance was used. Subsequently, the missing distance value was back-calculated to provide verification (Table 1) of the final instrument (and pin) location. The absence of measured intertarget angles in five instances (Table 1) do not affect the precision of repositioning, however independent verification of the final instrument locations are not possible.

All of the above error sources combined to produce an overall pin location error, and these error boundaries are plotted in Fig. 4 and 5 for each of the permanent B2.3 Subproject stations in Tuktoyaktuk Harbour and Mason Bay, respectively. In most cases estimated pin locations for each station fall within a ±5 m radius. CTD

profiles were measured no more than 2 m extant from a pin location.

Station coordinates were determined by first plotting the target locations on a 1:50000 scale topographic map (Mason Bay) or a 1:15000 scale hydrographic chart (Tuktoyaktuk Harbour). Plotting of the target locations was based upon knowledge of nearby landmarks and proximity to obvious points, bluffs, heights of land, etc. Then target-to-pin location distances (Table 1) were used to "triangulate" the pin locations on the map or chart. Latitude and longitude were then determined from the map or chart with the aid of dividers.

CTD systems

Some stations were sampled in 1982 with an Applied Microsystems (model unknown) meter. This meter produced printouts of temperature and salinity on strip chart paper. Accuracy of the meter is unknown. For each profile generally three, but never less than two, readings were recorded at each depth.

All other CTD profiles were measured using a Guildline (Model 8870) portable system consisting of a probe, winch and deck unit. An Arctic Model probe was used during March and an Open Ocean Model probe was used from July to September. Sensors on these probes measure temperature (^{o}C), salinity, as conductivity, and depth, as pressure (dbar), with an accuracy of $\pm$0.02, $\pm$0.04 and $\pm$1% full scale, respectively. The probes were factory calibrated in 1984 and 1986. Annual in-house calibrations were also conducted and values fell within the above ranges.

The winch was 12/24 volt powered Arctic Model equipped with a single conductor oceanographic cable. Cable deployment rate was 0.35 m$\cdot$sec^{-1}.

The deck unit consisted of a power supply module and a display module. Power was provided by two 12 volt batteries connected in series. Raw, serial data was recorded on magnetic tape using a portable audio cassette recorder. The display module provided a digital display of all channel outputs. A microprocessor in the display module calculated salinities using the UNESCO practical salinity scale 1978 (UNESCO 1981).

Temperature measurement

On occasion in 1983 temperatures were measured with a YSI meter. The model and accuracy for this meter are not known.

Bottle casts

With the exception of 1982, as noted above, all sampling prior to 1984 was made with bottle casts. Also, bottle casts were regularly conducted during the open water season of 1985 in Tuktoyaktuk Harbour.

Bottle casts were made using an opaque 5 litre Van Dorn sampler. A 250 mL glass bottle with vinyl cap liner was used to store the sample that was subsequently shipped to the Department's Winnipeg laboratory. Conductivity ratios were measured on a Guildline Autosal Model 8400 bench salinometer. Prior to processing each lot of samples the salinometer was calibrated to a standard of known conductivity. A mean conductivity ratio was calculated from three conductivity readings. Each reading represented an average value calculated from the maximum and minimum values observed for that reading. Salinities were then calculated using the UNESCO practical salinity scale 1978 (UNESCO 1981) on a Zenith Model 151 microcomputer.

DATA PROCESSING

Salinity and temperature data measured by the Applied Microsystems meter were processed by calculating the mean of the multiple readings recorded at each depth. These means and the salinities determined from the water bottle samples were stored on 5.25 inch microcomputer floppy disks. Where both temperature and salinity data were available density, in kg$\cdot$m^{-3}, was calculated using the international equation of state of seawater 1980 (UNESCO 1981).

The salinity and temperature profile data recorded on audio tape from the Guildline system were processed using a Zenith Model 151 microcomputer with programs written by Department staff at Winnipeg, and dBase III software. Data were first read from the audio tape back into the Guildline deck unit, processed through an IEEE488 interface board located in the unit's display module and then stored on 5.25 inch floppy disks. Means of salinity and temperature were calculated for multiple readings at a single depth (dbar) value. Density, in kg$\cdot$m^{-3}, was calculated using the international equation of state of seawater 1980 (UNESCO 1981).

For all CTD data a depth of zero (in m or dbar) represents the depth at the ice-air or water-air interface.

SAS Version 5.16 was used to generate the CTD data tables and profile figures on a VAX/VMS 11 computer.

RESULTS

An annual summary of stations sampled in Tuktoyaktuk Harbour and Mason Bay is provided in Tables 3 to 11, for 1980 to 1988, respectively. The tables for 1980 to 1983 provide summary data on only those stations at which CTD data was measured. However, the summary tables for 1984 to 1988 list all stations sampled for the NOGAP B2.1 or B2.3 Subprojects. Prior to 1984 data on sampling time, ice thickness and secchi disc depth are not available. Prior to 1985 CTD data were collected only in Tuktoyaktuk Harbour.

In Tables 3 to 11 the column "CTD Profile" is interpreted as: "BCP" indicates a Bottle Cast Profile was conducted, and "Yes" indicates a profile was measured with either the Applied Microsystems meter or Guildline probe as described below.

In 1980 (Table 3) the number of profiles measured during the ice cover and open water periods were 13 and 35, respectively. All were bottle cast profiles. Sampling stations were located throughout Tuktoyaktuk Harbour, with two in Kugmallit Bay (Fig. 6). Station depths ranged from 3 to 24 m (Table 3).

In 1981 (Table 4) nine and 20 profiles were measured during the ice cover and open water periods, respectively. All were bottle cast profiles. Sampling effort was greatest at the harbour entrance, station B, and at the deepest spot in north basin, station E (Fig. 6). Station depths ranged from 4 to 23 m (Table 4).

In 1982 (Table 5) two and 20 profiles were measured during the ice cover and open water periods, respectively. Fourteen of the 22 were bottle cast profiles. Eight profiles were measured with the Applied Microsystems meter, six of which were measured concurrent to sampling with bottle casts (Table 5). All profiles were measured at stations B and E (Fig. 6). Station depths ranged from 4 to 22 m (Table 5).

In 1983 (Table 6) four bottle cast profiles were measured during the open water period. For three of the four profiles density was calculated because concurrent temperature measurements were available. Stations were located throughout Tuktoyaktuk Harbour (Fig. 6) at depths ranging from 5 to 27 m (Table 6).

Five CTD profiles were measured in Tuktoyaktuk Harbour during the open water period in 1984 (Table 7) for the B2.1 Subproject. All were made with the Guildline probe at the deepest location of the harbour's south and north basins (Fig. 7).

The locations of all stations sampled in 1985 for the B2.3 Subproject are shown in Fig. 8 and 9, for Tuktoyaktuk Harbour and Mason Bay, respectively. Depths of these stations ranged from 4 to 25 m, and from 4 to 22 m, for Tuktoyaktuk Harbour and Mason Bay, respectively (Table 8).

During the March, 1985, period of ice cover four CTD profiles were measured in Tuktoyaktuk Harbour and one (station 85058) was measured in Mason Bay (Table 8) using the Guildline probe. During the open water period of 1985 25 profiles were measured in Tuktoyaktuk Harbour at stations THN, or E, and THS, or F (Fig. 7). Seven were measured with the Guildline probe (the THN and THS labels) and 18 were bottle cast profiles (the E and F labels) (Table 8). Separate station labels were used for the same station locations for book keeping purposes. On August 8 and September 2 concurrent bottle cast and Guildline profiles were measured at both locations in Tuktoyaktuk Harbour (Table 8).

In March, 1986, six permanent stations for the B2.3 Subproject were established on Tuktoyaktuk Harbour (Fig. 8) and on Mason Bay (Fig. 9). Of the six stations in Tuktoyaktuk Harbour four were estimated to be close enough to the location of stations sampled in 1985 to be assigned the same station numbers (Fig. 8). However, it is not possible to determine the location of these 1985 stations relative to the more precise locations determined for them in the subsequent years, 1986 to 1988, as illustrated in Fig. 4. The depth range of the permanent stations in Tuktoyaktuk Harbour and in Mason Bay were, respectively, from 4 to 22 m, and from 5 to 20 m. CTD profiles were measured with the Guildline probe at all stations in March, 1986 (Table 9). During the open water period in 1986 four CTD profiles were measured with the Guildline probe in Tuktoyaktuk Harbour (Fig. 8, Table 9).

During March, 1987, seven and six CTD profiles were measured with the Guildline probe in Tuktoyaktuk Harbour and in Mason Bay, respectively (Table 10). All were measured at the permanent stations (Fig. 8 and 9) with the exception of the profile measured at the Tuktoyaktuk Harbour station 87T09 on March 10 (Table 10). It was about 20 m north of the permanent 87T09 station, and taken for comparative purposes. Four CTD profiles were measured with the Guildline probe in Tuktoyaktuk Harbour during the open water period in 1987; two at each of the THS and THN stations (Fig. 8, Table 10). The B2.1 Subproject was completed in 1987, and no further sampling was conducted during periods of open water.

In March, 1988, six CTD profiles were measured with the Guildline probe at each of the Tuktoyaktuk Harbour and Mason Bay permanent stations (Table 11, Fig. 8 and 9). The B2.3

Subproject was completed in 1988 and no further sampling during ice cover was conducted.

CTD data are tabulated by year, station and date in Appendix A. Data for each year, 1980 to 1988, are in Appendix A1 to Appendix A9, respectively. When included, plots of the CTD profiles are shown on the page opposite the corresponding data table. Density, in $kg \cdot m^{-3}$, is plotted as sigma t (density - 1000). Depths are expressed in metres for the data collected by bottle cast and the Applied Microsystems meter, and in pressure units (dbar) for the data collected by the Guildline probe.

In 1982 (Appendix A3), on July 21 and 29, and on August 6 and 11 at the B and E stations discrepancies were observed between the data measured with the Applied Microsystems meter and the salinities determined from the bottle cast samples. Reasons for this are not known but in five of the six comparisons salinities read from the meter were less than those from the bottle cast samples at the shallower depths (and less saline water) of the profile.

In 1985 (Appendix A6), on August 8 and September 2 at the THN (or E) and THS (or F) stations, comparable results were observed between concurrent profiles measured with the Guildline probe and the salinities determined from the bottle cast samples. The profiles sampled on August 8 with the Guildline probe were measured in 1 m increments because the probe was lowered manually.

On March 16, 1987, at station 87M10 (Appendix A8, Table A8.11) the profile data from 15.5 to 17.9 m were deleted because of an inexplicably large aberration in the readouts. Similarly, for the same station sampled on March 14, 1988 (Appendix A9, Table A9.8), the salinity profile data from 0.3 to 2.5 m were deleted. A near-to-surface re-reading was made to obtain the 0.1 m depth data.

In Mason Bay the range in maximum depths of profiles measured from the ice surface was from 4.4 to 19.6 m. Salinity and temperature measurements ranged from 3.19 to 25.20, and from -0.70 to 3.28°C, respectively (Table 12). In Tuktoyaktuk Harbour the range in maximum depths of profiles measured from the ice and open water surfaces were, respectively, from 1.9 to 23.0 m, and from 0.0 to 26.0 m. The ranges in salinity and temperature during the ice cover period were from 0.00 to 30.24, and from -0.94 to 3.91°C, respectively (Table 12). The corresponding ranges during open water were from 0.07 to 31.31, and from 0.17 to 16.25°C.

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Table 1. Station positioning data, 1986 to 1988 for Tuktoyaktuk Harbour ('T' stations) and Mason Bay ('M' stations). The ANGLE and DISTANCE values are for the final instrument location.

STATION		TARGET	1986	1987	1988
T01	ANGLE	T_1,T_2	58° 29.5'	60° 59.0'	60° 22.4'
	DISTANCE (m)	T_1	201.7	196 (+6)*	203.6 (-2)
		T_2	199.2	188 (+11)	205.2 (-5)
T02	ANGLE	T_1,T_2	77° 29.5'	77° 26.4'	82° 18.8'
	DISTANCE (m)	T_1	73.8	73.6	75.1
		T_2	198.2	197.6	198.4
T04	ANGLE	T_3,T_4	22° 01.9'	-**	21° 55.2'
	DISTANCE (m)	T_3	686.3	688 (-2)	686.0
		T_4	805.0	805 (-2)	805.0
T05	ANGLE	T_3,T_4	60° 40.5'	60° 22.9'	60° 15.7'
	DISTANCE (m)	T_3	277.0	277.5	277.4
		T_4	326.8	328.4	328.2
T08	ANGLE	T_1,T_2	10° 46.5'	10° 40.3'	11° 05.1'
	DISTANCE (m)	T_1	763.6	862.3 (+1)	763.2
		T_2	616.1	614.0 (+2)	616.2
T09	ANGLE	T_3,T_4	42° 32.3'	42° 45.0'	42° 27.1'
	DISTANCE (m)	T_3	372.6	372.4	371.6
		T_4	451.5	449.2 (+2)	451.4
M07	ANGLE	T_5,T_6	102° 24.6'	102° 14.5'	-
	DISTANCE (m)	T_5	763.6	763.9	765.0
		T_6	2879.1	2876.4	2880.0
M08	ANGLE	T_5,T_6	97° 54.6'	97° 48.7'	-
	DISTANCE (m)	T_5	1142.3	1142.4	1138 (+4)
		T_6	2763.5	2763.7	2764.0
M09	ANGLE	T_5,T_6	76° 33.1'	76° 25.4'	-
	DISTANCE (m)	T_5	2555.9	2555 (+1)	2558 (-2)
		T_6	2502.0	2504 (-2)	2505 (-1)
M10	ANGLE	T_6,T_7	121° 37.3'	121° 31.4'	121° 25.0'
	DISTANCE (m)	T_6	1776.0	1775.0	1777.0
		T_7	3819.0***	3822.0***	3823.0
M11	ANGLE	T_6,T_7	99° 43.6'	99° 46.5'	99° 46.0'
	DISTANCE (m)	T_6	2471.5	2472.0	2472.0
		T_7	3933.0***	3930.0	3931.0
M12	ANGLE	T_7,T_8	31° 59.6'	31° 56.6'	-
	DISTANCE (m)	T_7	1713.7	1717.0	1710 (+4)
		T_8	1486.3	1485.0	1487 (-1)

* Additional distance moved to estimate pin location.
** Intertarget angle not measured.
*** Back-calculated distance.

Table 2. Estimates of target location and target repositioning error (∓ m) for 1987 and 1988 relative to the location established in 1986. Targets 1-4 are for Tuktoyaktuk Harbour, and targets 5-8 are for Mason Bay.

TARGET	LATITUDE	LONGITUDE	1987	1988
1	69° 26.57'	132° 59.62'	0.25	0.25
2	69° 26.46'	132° 59.57'	1.0	3.0
3	69° 25.87'	132° 57.65'	1.0	1.0
4	69° 25.93'	132° 57.25'	0.5	0.5
5	69° 31.58'	134° 07.7'	1.0	1.0
6	69° 32.50'	134° 03.6'	0.7	0.7
7	69° 35.15'	134° 03.9'	0.5	0.5
8	69° 35.00'	134° 02.6'	2.0	2.0

Table 3. Summary data for stations sampled in Tuktoyaktuk Harbour during 1980.

Station	Latitude Deg	Latitude Min	Longitude Deg	Longitude Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
80400	69	27.4	132	59.2	Apr 12	N/A***	3	N/A		BCP	1.9
80A00	69	25.0	132	59.1	Apr 18	N/A	6	N/A		BCP	5.8
80B00	69	28.0	132	00.0	Apr 18	N/A	5	N/A		BCP	3.5
80C00	69	27.6	132	59.1	Apr 18	N/A	4	N/A		BCP	2.3
80D00	69	26.0	132	59.3	Apr 18	N/A	5	N/A		BCP	4.1
80E00	69	26.2	132	58.3	Apr 18	N/A	21	N/A		BCP	20.0
80F00	69	25.3	132	58.2	Apr 18	N/A	24	N/A		BCP	23.0
80G00	69	24.0	132	58.9	Apr 18	N/A	9	N/A		BCP	7.8
80E00	69	26.2	132	58.3	May 29	N/A	21	N/A		BCP	20.0
80G00	69	24.0	132	58.9	May 29	N/A	7	N/A		BCP	6.0
80A00	69	25.0	132	59.1	May 30	N/A	7	N/A		BCP	5.5
80B00	69	28.0	132	00.0	May 30	N/A	5	N/A		BCP	4.0
80C00	69	27.6	132	59.1	May 30	N/A	6	N/A		BCP	4.5
80A00	69	25.0	132	59.1	Jul 9	N/A	7		N/A	BCP	5.5
80C00	69	27.6	132	59.1	Jul 9	N/A	6		N/A	BCP	4.5
80E00	69	26.2	132	58.3	Jul 9	N/A	20		N/A	BCP	19.0
80G00	69	24.0	132	58.9	Jul 9	N/A	8		N/A	BCP	7.0
80B00	69	28.0	132	00.0	Jul 10	N/A	4		N/A	BCP	3.0
80A00	69	25.0	132	59.1	Jul 13	N/A	7		N/A	BCP	5.5
80B00	69	28.0	132	00.0	Jul 13	N/A	4		N/A	BCP	3.0
80C00	69	27.6	132	59.1	Jul 13	N/A	6		N/A	BCP	4.5
80E00	69	26.2	132	58.3	Jul 14	N/A	20		N/A	BCP	19.0
80G00	69	24.0	132	58.9	Jul 14	N/A	8		N/A	BCP	7.0
80A00	69	25.0	132	59.1	Jul 21	N/A	6		N/A	BCP	5.0
80B00	69	28.0	132	00.0	Jul 21	N/A	4		N/A	BCP	3.0
80C00	69	27.6	132	59.1	Jul 21	N/A	6		N/A	BCP	4.5
80E00	69	26.2	132	58.3	Jul 22	N/A	20		N/A	BCP	19.0
80G00	69	24.0	132	58.9	Jul 22	N/A	8		N/A	BCP	7.0
80A00	69	25.0	132	59.1	Jul 28	N/A	7		N/A	BCP	5.5
80B00	69	28.0	132	00.0	Jul 28	N/A	4		N/A	BCP	3.0
80C00	69	27.6	132	59.1	Jul 28	N/A	6		N/A	BCP	4.5
80E00	69	26.2	132	58.3	Jul 29	N/A	20		N/A	BCP	19.0
80G00	69	24.0	132	58.9	Jul 29	N/A	8		N/A	BCP	7.0
80A00	69	25.0	132	59.1	Aug 7	N/A	8		N/A	BCP	6.5
80B00	69	28.0	132	00.0	Aug 7	N/A	5		N/A	BCP	3.5
80C00	69	27.6	132	59.1	Aug 7	N/A	7		N/A	BCP	5.5
80E00	69	26.2	132	58.3	Aug 7	N/A	21		N/A	BCP	20.5
80G00	69	24.0	132	58.9	Aug 7	N/A	10		N/A	BCP	9.0
80A00	69	25.0	132	59.1	Aug 12	N/A	7		N/A	BCP	5.5
80B00	69	28.0	132	00.0	Aug 12	N/A	4		N/A	BCP	3.0
80C00	69	27.6	132	59.1	Aug 12	N/A	6		N/A	BCP	5.0

CONTINUED NEXT PAGE

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 3. Summary for 1980 continued.

Station	Latitude Deg	Latitude Min	Longitude Deg	Longitude Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
80E00	69	26.2	132	58.3	Aug 12	N/A***	20		N/A	BCP	19.0
80G00	69	24.0	132	58.9	Aug 12	N/A	8		N/A	BCP	7.0
80E00	69	26.2	132	58.3	Sep 10	N/A	20		N/A	BCP	19.0
80G00	69	24.0	132	58.9	Sep 10	N/A	10		N/A	BCP	9.0
80A00	69	25.0	132	59.1	Sep 11	N/A	9		N/A	BCP	7.5
80B00	69	28.0	132	00.0	Sep 11	N/A	5		N/A	BCP	3.5
80C00	69	27.6	132	59.1	Sep 11	N/A	7		N/A	BCP	5.5

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 4. Summary data for stations sampled in Tuktoyaktuk Harbour during 1981.

Station	Latitude Deg	Latitude Min	Longitude Deg	Longitude Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
81A00	69	25.0	132	59.1	Jan 10	N/A***	8	N/A		BCP	7.0
81B00	69	28.0	133	00.0	Jan 10	N/A	5	N/A		BCP	4.1
81C00	69	27.6	132	59.1	Jan 10	N/A	7	N/A		BCP	6.0
81E00	69	26.2	132	58.3	Jan 10	N/A	19	N/A		BCP	18.0
81G00	69	24.0	132	58.9	Jan 10	N/A	10	N/A		BCP	9.3
81B00	69	28.0	133	00.0	Mar 23	N/A	4	N/A		BCP	3.0
81C00	69	27.6	132	59.1	Mar 23	N/A	5	N/A		BCP	4.0
81E00	69	26.2	132	58.3	Mar 23	N/A	19	N/A		BCP	18.0
81G00	69	24.0	132	58.9	Mar 23	N/A	10	N/A		BCP	9.0
81B00	69	28.0	133	00.0	Jun 29	N/A	6		N/A	BCP	4.5
81E00	69	26.2	132	58.3	Jun 29	N/A	23		N/A	BCP	21.5
81B00	69	28.0	133	00.0	Jul 6	N/A	6		N/A	BCP	4.5
81E00	69	26.2	132	58.3	Jul 6	N/A	23		N/A	BCP	21.5
81B00	69	28.0	133	00.0	Jul 13	N/A	5		N/A	BCP	3.5
81E00	69	26.2	132	58.3	Jul 13	N/A	23		N/A	BCP	21.5
81B00	69	28.0	133	00.0	Jul 20	N/A	5		N/A	BCP	4.0
81E00	69	26.2	132	58.3	Jul 20	N/A	19		N/A	BCP	18.0
81B00	69	28.0	133	00.0	Jul 27	N/A	6		N/A	BCP	4.5
81E00	69	26.2	132	58.3	Jul 27	N/A	23		N/A	BCP	21.5
81B00	69	28.0	133	00.0	Aug 5	N/A	5		N/A	BCP	4.0
81E00	69	26.2	132	58.3	Aug 5	N/A	21		N/A	BCP	20.0
81B00	69	28.0	133	00.0	Aug 11	N/A	6		N/A	BCP	4.5
81E00	69	26.2	132	58.3	Aug 11	N/A	23		N/A	BCP	21.5
81B00	69	28.0	133	00.0	Aug 18	N/A	6		N/A	BCP	4.5
81E00	69	26.2	132	58.3	Aug 18	N/A	21		N/A	BCP	20.0
81B00	69	28.0	133	00.0	Aug 25	N/A	6		N/A	BCP	4.5
81E00	69	26.2	132	58.3	Aug 25	N/A	23		N/A	BCP	21.5
81B00	69	28.0	133	00.0	Sep 2	N/A	6		N/A	BCP	4.5
81E00	69	26.2	132	58.3	Sep 2	N/A	21		N/A	BCP	20.0

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 5. Summary data for stations sampled in Tuktoyaktuk Harbour during 1982.

Station	Latitude Deg	Latitude Min	Longitude Deg	Longitude Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
82B00	69	28.0	133	00.0	May 9	N/A***	6	N/A		BCP	5.0
82E00	69	26.2	132	58.3	May 9	N/A	22	N/A		BCP	20.5
82E00	69	26.2	132	58.3	Jul 11	N/A	20		N/A	BCP	18.5
82B00	69	28.0	133	00.0	Jul 21	N/A	4		N/A	Yes	4.0
82E01	69	26.2	132	58.3	Jul 21	N/A	21		N/A	Yes	21.2
82E02	69	26.2	132	58.3	Jul 21	N/A	21		N/A	BCP	20.0
82E00	69	26.2	132	58.3	Jul 27	N/A	21		N/A	Yes	21.0
82B01	69	28.0	133	00.0	Jul 29	N/A	5		N/A	Yes	5.0
82B02	69	28.0	133	00.0	Jul 29	N/A	5		N/A	BCP	4.0
82E01	69	26.2	132	58.3	Jul 29	N/A	21		N/A	Yes	21.0
82E02	69	26.2	132	58.3	Jul 29	N/A	21		N/A	BCP	20.0
82B00	69	28.0	133	00.0	Aug 6	N/A	6		N/A	BCP	4.5
82E01	69	26.2	132	58.3	Aug 6	N/A	21		N/A	Yes	21.0
82E02	69	26.2	132	58.3	Aug 6	N/A	21		N/A	BCP	20.0
82B01	69	28.0	133	00.0	Aug 11	N/A	5		N/A	Yes	4.5
82B02	69	28.0	133	00.0	Aug 11	N/A	6		N/A	BCP	4.5
82E01	69	26.2	132	58.3	Aug 11	N/A	21		N/A	Yes	21.0
82E02	69	26.2	132	58.3	Aug 11	N/A	21		N/A	BCP	20.0
82B00	69	28.0	133	00.0	Aug 17	N/A	6		N/A	BCP	4.5
82E00	69	26.2	132	58.3	Aug 17	N/A	22		N/A	BCP	20.5
82B00	69	28.0	133	00.0	Aug 23	N/A	6		N/A	BCP	0.0
82E00	69	26.2	132	58.3	Aug 23	N/A	22		N/A	BCP	20.5

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 6. Summary data for stations sampled in Tuktoyaktuk Harbour during 1983.

Station	Latitude Deg	Min	Longitude Deg	Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
83T19	69	25.7	132	55.7	Aug 25	N/A***	5		N/A	BCP	3.5
83TB5	69	26.2	132	58.3	Aug 25	N/A	27		N/A	BCP	26.0
83TB9	69	24.9	132	58.6	Aug 25	N/A	16		N/A	BCP	14.5
83THN	69	26.2	132	58.3	Aug 25	N/A	20		N/A	BCP	18.5

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 7. Summary data for all stations sampled in Tuktoyaktuk Harbour during 1984.

Station	Latitude Deg	Min	Longitude Deg	Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
84THN	69	26.40	132	58.20	Jul 9	N/A***	23		N/A	Yes	16.3
84THN	69	26.40	132	58.20	Jul 26	1430	20		N/A	Yes	17.7
84THS	69	25.10	132	58.25	Jul 26	1500	23		0.5	Yes	20.3
84THN	69	26.40	132	58.20	Sep 10	1510	20		N/A	Yes	17.6
84THS	69	29.55	132	58.00	Sep 10	1548	25		N/A	Yes	14.9

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 8. Summary data for all stations sampled in Tuktoyaktuk Harbour and Mason Bay during 1985.

Station	Latitude Deg	Latitude Min	Longitude Deg	Longitude Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
85T01	69	26.5	132	59.3	Mar 16	0115	10	2.0		Yes	8.2
85T02	69	26.6	132	59.5	Mar 17	1945	5	1.8		N/A***	
85T03	69	26.4	132	58.8	Mar 17	2145	14	2.0		Yes	11.6
85T04	69	26.2	132	58.3	Mar 18	1700	20	2.3		Yes	17.7
85T05	69	26.0	132	57.7	Mar 18	2000	4	2.1		N/A	
85T06	69	26.8	133	01.2	Mar 18	2135	10	2.1		Yes	8.0
85T07	69	26.8	133	01.0	Mar 18	0120	5	2.0		N/A	
85M01	69	32.8	134	04.2	Mar 22	1630	12	2.0		N/A	
85M02	69	33.5	134	04.3	Mar 22	1720	22	2.0		N/A	
85M03	69	34.1	134	05.5	Mar 22	1805	11	2.0		N/A	
85M04	69	33.7	134	02.6	Mar 22	1915	17	2.0		N/A	
85M05	69	33.1	134	02.0	Mar 22	2215	4	2.0		N/A	
85M06	69	32.6	134	04.4	Mar 23	1800	4	2.0		N/A	
85058	69	33.9	134	03.4	Mar 27	2230	18	2.0		Yes	16.3
85E00	69	26.15	132	58.25	Jul 11	N/A	20		N/A	BCP	20.0
85F00	69	25.55	132	58.00	Jul 11	N/A	25		N/A	BCP	20.0
85E00	69	26.15	132	58.25	Jul 15	N/A	20		N/A	BCP	20.0
85F00	69	25.55	132	58.00	Jul 15	N/A	25		N/A	BCP	22.0
85THN	69	26.17	132	58.28	Jul 19	N/A	20		N/A	Yes	15.8
85THS	69	25.32	132	58.15	Jul 19	2040	25		N/A	Yes	22.2
85THN	69	26.17	132	58.28	Jul 20	2015	20		N/A	Yes	12.1
85THS	69	25.32	132	58.15	Jul 20	2150	25		N/A	N/A	
85E00	69	26.15	132	58.25	Jul 22	N/A	20		N/A	BCP	20.0
85F00	69	25.55	132	58.00	Jul 22	N/A	25		N/A	BCP	25.0
85E00	69	26.15	132	58.25	Jul 30	N/A	20		N/A	BCP	20.0
85F00	69	25.55	132	58.00	Jul 30	N/A	25		N/A	BCP	25.0
85F00	69	25.55	132	58.00	Aug 2	1540	25		0.1	BCP	25.0
85THS	69	25.32	132	58.15	Aug 2	1540	25		0.1	N/A	
85E00	69	26.15	132	58.25	Aug 2	1650	20		0.2	BCP	20.0
85THN	69	26.17	132	58.28	Aug 2	1650	20		0.2	N/A	
85E00	69	26.15	132	58.25	Aug 8	0100	20		0.4	BCP	20.0
85THN	69	26.17	132	58.28	Aug 8	0100	20		0.4	Yes	17.3
85F00	69	25.55	132	58.00	Aug 8	0250	25		0.5	BCP	25.0
85THS	69	25.32	132	58.15	Aug 8	0250	25		0.5	Yes	21.2
85E00	69	26.15	132	58.25	Aug 20	N/A	20		N/A	BCP	20.0
85F00	69	25.55	132	58.00	Aug 20	N/A	25		N/A	BCP	23.0
85E00	69	26.15	132	58.25	Aug 27	N/A	20		N/A	BCP	20.0
85F00	69	25.55	132	58.00	Aug 27	N/A	25		N/A	BCP	20.0
85E00	69	26.15	132	58.25	Sep 2	1545	20		1.3	BCP	20.0
85THN	69	26.17	132	58.28	Sep 2	1545	20		1.3	Yes	18.6
85F00	69	25.55	132	58.00	Sep 2	1750	25		1.5	BCP	23.0
85THS	69	25.32	132	58.15	Sep 2	1750	25		1.5	Yes	22.9

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 9. Summary data for all stations sampled in Tuktoyaktuk Harbour and Mason Bay during 1986.

Station	Latitude Deg	Latitude Min	Longitude Deg	Longitude Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
86T01	69	26.54	132	59.34	Mar 10	1630	10	1.7		Yes	9.0
86T02	69	26.57	132	59.50	Mar 11	1610	4	1.5		Yes	4.3
86T08	69	26.33	132	58.69	Mar 12	1540	15	1.5		Yes	13.7
86T04	69	26.17	132	58.28	Mar 13	2030	22	1.6		Yes	20.7
86T09	69	26.07	132	57.83	Mar 14	2000	9	1.8		Yes	7.6
86T05	69	26.02	132	57.70	Mar 15	2020	5	1.8		Yes	3.8
86M07	69	31.95	134	08.20	Mar 17	1620	6	1.7		Yes	4.7
86M08	69	32.18	134	08.30	Mar 18	1545	10	1.8		Yes	8.7
86M09	69	32.90	134	07.50	Mar 19	1650	10	1.6		Yes	8.7
86M10	69	33.04	134	05.70	Mar 20	1530	20	1.7		Yes	19.1
86M11	69	33.22	134	06.70	Mar 21	1545	18	1.7		Yes	16.4
86M12	69	34.27	134	03.40	Mar 22	1530	5	1.8		Yes	4.6
86THN	69	26.17	132	58.28	Jul 20	1940	15		N/A***	N/A	
86THS	69	25.32	132	58.15	Aug 7	1630	23		1.2	Yes	23.0
86THN	69	26.17	132	58.28	Aug 7	2015	22		0.3	Yes	20.9
86THS	69	25.32	132	58.15	Sep 8	1455	23		1.7	Yes	22.7
86THN	69	26.17	132	58.28	Sep 8	2039	20		1.0	Yes	19.8
86THN	69	26.17	132	58.28	Sep 13	1900	20		N/A	N/A	
86TDD	69	24.95	132	58.90	Sep 14	2400	23		N/A	N/A	

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 10. Summary data for all stations sampled in Tuktoyaktuk Harbour and Mason Bay during 1987.

Station	Latitude Deg	Min	Longitude Deg	Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
87T02	69	26.57	132	59.50	Mar 5	1530	5	1.1		Yes	4.8
87T01	69	26.54	132	59.34	Mar 6	1430	10	1.6		Yes	8.7
87T08	69	26.33	132	58.80	Mar 7	1400	15	1.3		Yes	13.5
87T04	69	26.17	132	58.28	Mar 8	1400	22	1.3		Yes	20.1
87T09	69	26.07	132	57.83	Mar 9	1430	9	1.6		Yes	8.3
87T04	69	26.17	132	58.28	Mar 10	1630	22	1.3		N/A***	
87T09	69	26.07	132	57.83	Mar 10	1940	10	1.5		Yes	9.0
87T05	69	26.02	132	57.70	Mar 10	2040	5	1.6		Yes	4.6
87M07	69	31.95	134	08.20	Mar 11	1730	5	1.4		Yes	4.5
87M08	69	32.18	134	08.30	Mar 12	1600	10	1.4		Yes	8.9
87M12	69	34.27	134	03.40	Mar 13	1540	6	1.3		Yes	5.0
87M10	69	33.04	134	05.70	Mar 15	1750	20	1.4		N/A	
87M10	69	33.04	134	05.70	Mar 16	2030	20	1.4		Yes	17.7
87M11	69	33.22	134	06.70	Mar 16	2135	18	1.5		Yes	17.1
87M09	69	32.90	134	07.50	Mar 17	1600	10	1.1		Yes	8.8
87T04	69	26.17	132	58.28	Jul 1	N/A	22		N/A	N/A	
87T04	69	26.17	132	58.28	Jul 1	N/A	22		N/A	N/A	
87M10	69	33.04	134	05.70	Jul 4	N/A	20		N/A	N/A	
87M10	69	33.04	134	05.70	Jul 6	N/A	20		N/A	N/A	
87THS	69	25.32	132	58.15	Jul 15	1825	25		0.5	N/A	
87THS	69	25.32	132	58.15	Jul 16	1600	26		0.6	Yes	25.5
87THN	69	26.17	132	58.28	Jul 16	1920	22		0.7	Yes	21.6
87T04	69	26.17	132	58.28	Aug 30	N/A	22		N/A	N/A	
87THS	69	25.32	132	58.15	Aug 30	2013	22		0.2	Yes	22.1
87THN	69	26.17	132	58.28	Aug 30	2150	21		0.2	Yes	20.7
87M10	69	33.04	134	05.70	Sep 4	N/A	20		N/A	N/A	

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 11. Summary data for all stations sampled in Tuktoyaktuk Harbour and Mason Bay during 1988.

Station	Latitude Deg	Latitude Min	Longitude Deg	Longitude Min	Date Sampled	Gmt*	Total Depth (m)	Ice Depth (m)	Secchi Depth (m)	CTD** Profile	Profile Depth (Dbar or m)
88TO2	69	26.57	132	59.50	Mar 6	2000	5	1.0		N/A***	
88TO2	69	26.57	132	59.50	Mar 7	1400	5	1.1		Yes	4.2
88TO1	69	26.54	132	59.34	Mar 7	1600	10	1.3		Yes	8.8
88TO8	69	26.33	132	58.69	Mar 8	1430	17	1.4		Yes	16.6
88TO1	69	26.54	132	59.34	Mar 8	2230	10	1.3		N/A	
88TO4	69	26.17	132	58.28	Mar 9	1450	22	1.3		Yes	21.3
88TO9	69	26.07	132	57.83	Mar 10	1430	9	1.4		Yes	7.7
88TO5	69	26.02	132	57.70	Mar 10	2140	5	1.4		Yes	4.4
88MO7	69	31.95	134	08.20	Mar 13	1530	6	1.3		Yes	4.8
88M10	69	33.04	134	05.70	Mar 14	1415	20	1.4		Yes	19.6
88M11	69	33.22	134	06.70	Mar 14	2050	18	1.2		Yes	16.9
88MO9	69	32.90	134	07.50	Mar 15	1500	10	1.4		Yes	8.3
88MO8	69	32.18	134	08.30	Mar 15	0015	10	1.2		Yes	8.9
88MO8	69	32.18	134	08.30	Mar 16	1445	10	1.2		N/A	
88M12	69	34.27	134	03.40	Mar 16	2100	5	1.2		Yes	4.7

* Gmt - Greenwich mean time.
** CTD - Conductivity, Temperature, Density.
*** N/A - Not Available.

Table 12. Range of temperature (°C) and salinity for Tuktoyaktuk Harbour and Mason Bay, 1980 to 1988.

YEAR	PERIOD*	TUKTOYAKTUK HARBOUR				MASON BAY			
		TEMPERATURE		SALINITY		TEMPERATURE		SALINITY	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
1980	1			0.07	30.24				
	2			0.18	30.24				
1981	1			0.19	26.92				
	2			0.07	28.39				
1982	1			0.17	24.60				
	2	0.64	14.53	0.51	30.24				
1983	2	5.0	12.0	14.34	28.35				
1984	2	2.84	14.06	1.20	27.48				
1985	1	-0.03	0.33	0.17	28.40	-0.70	2.37	9.13	23.24
	2	0.17	10.51	0.85	28.37				
1986	1	-0.04	1.53	0.33	27.37	-0.58	2.53	6.86	22.96
	2	2.23	11.20	10.24	26.53				
1987	1	-0.94	3.91	0.17	25.46	-0.54	3.28	6.57	21.78
	2	3.03	16.25	4.32	31.00				
1988	1	-0.24	0.32	0.00	29.75	-0.60	1.10	3.19	25.20

* 1 = Ice Cover; 2 = Open Water

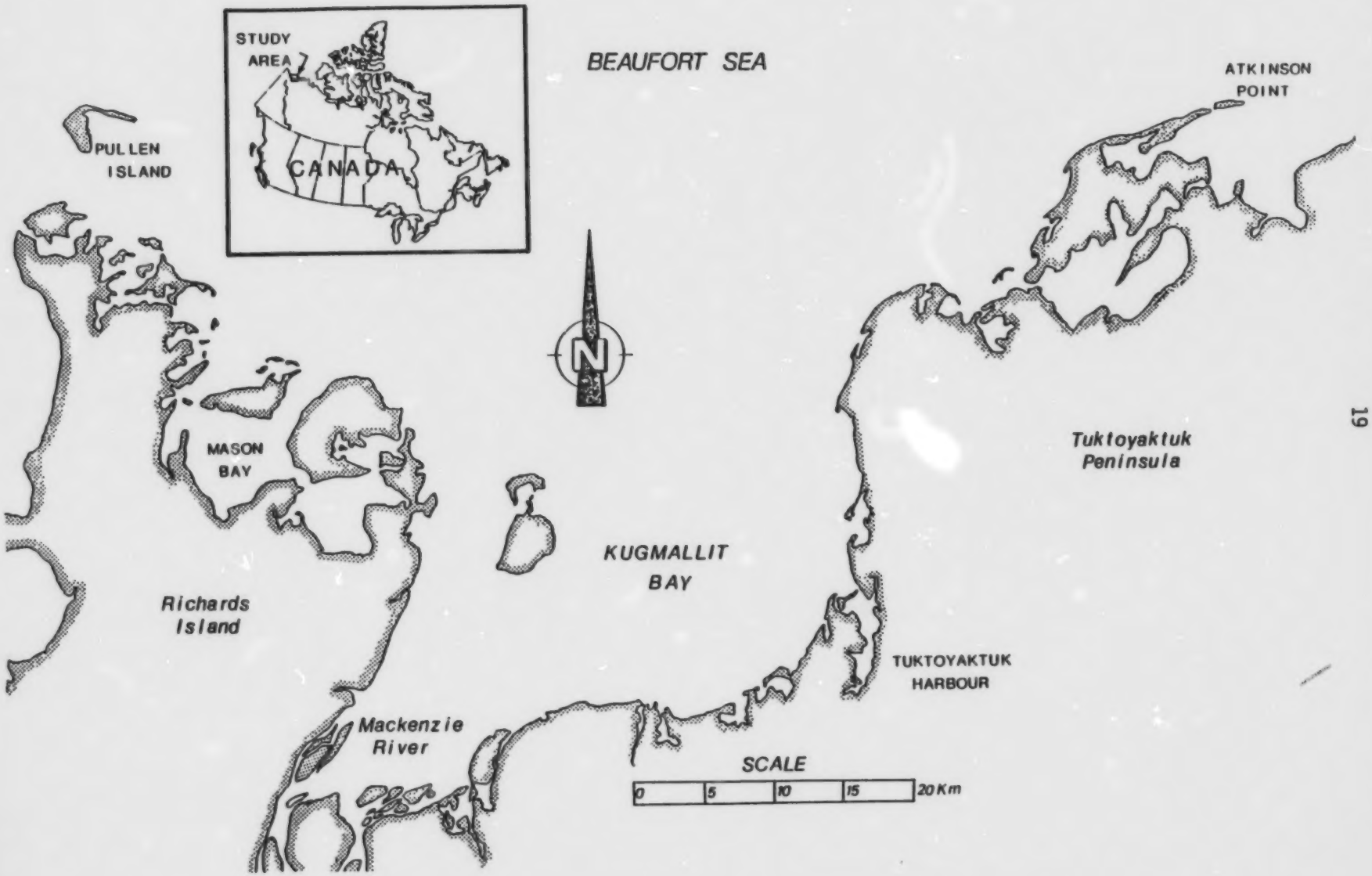

Fig. 1. Location of Tuktoyaktuk Harbour and Mason Bay in the southeastern Beaufort Sea.

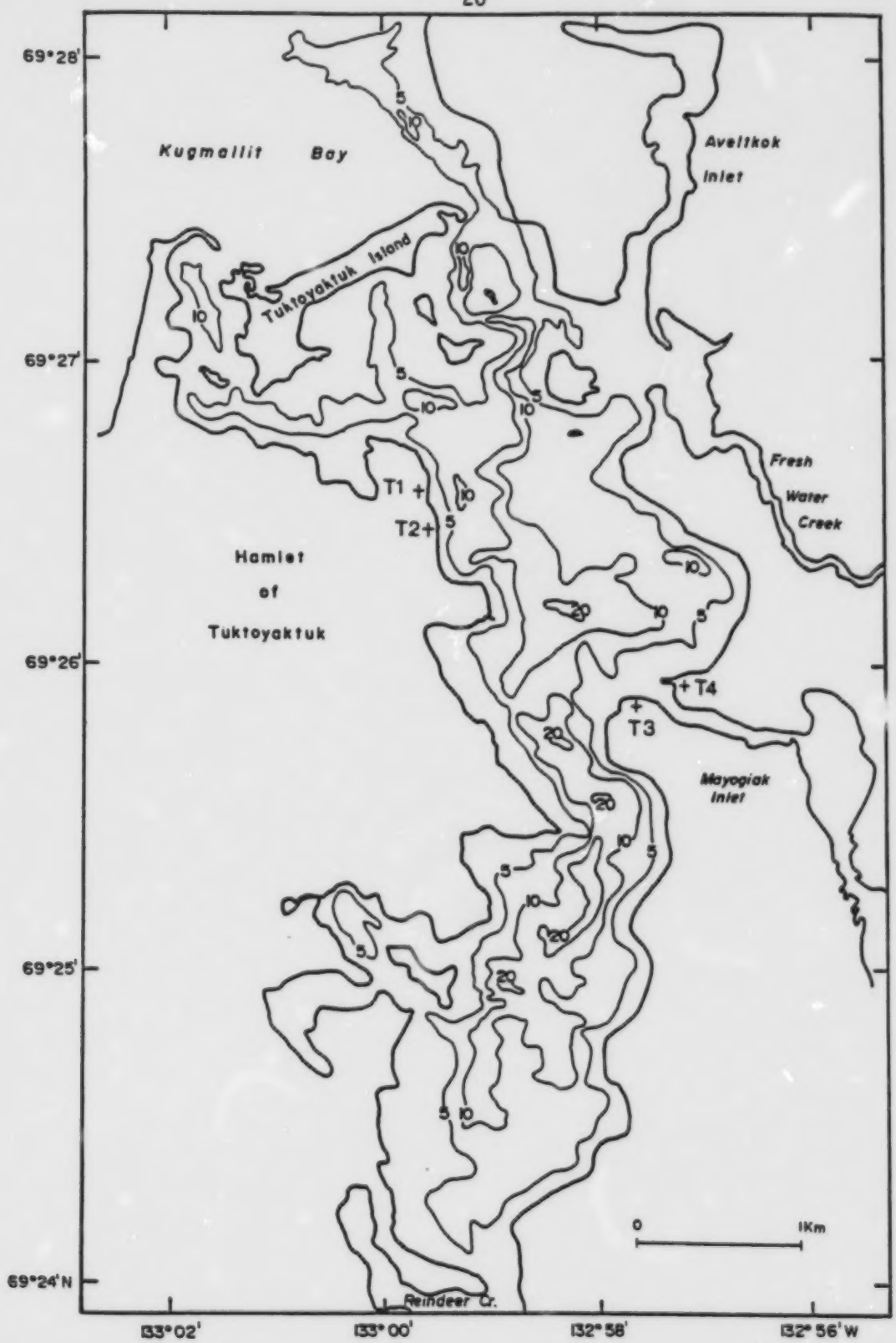

Fig. 2. Bathymetric chart of Tuktoyaktuk Harbour. Target locations, T1 to T4, are shown.

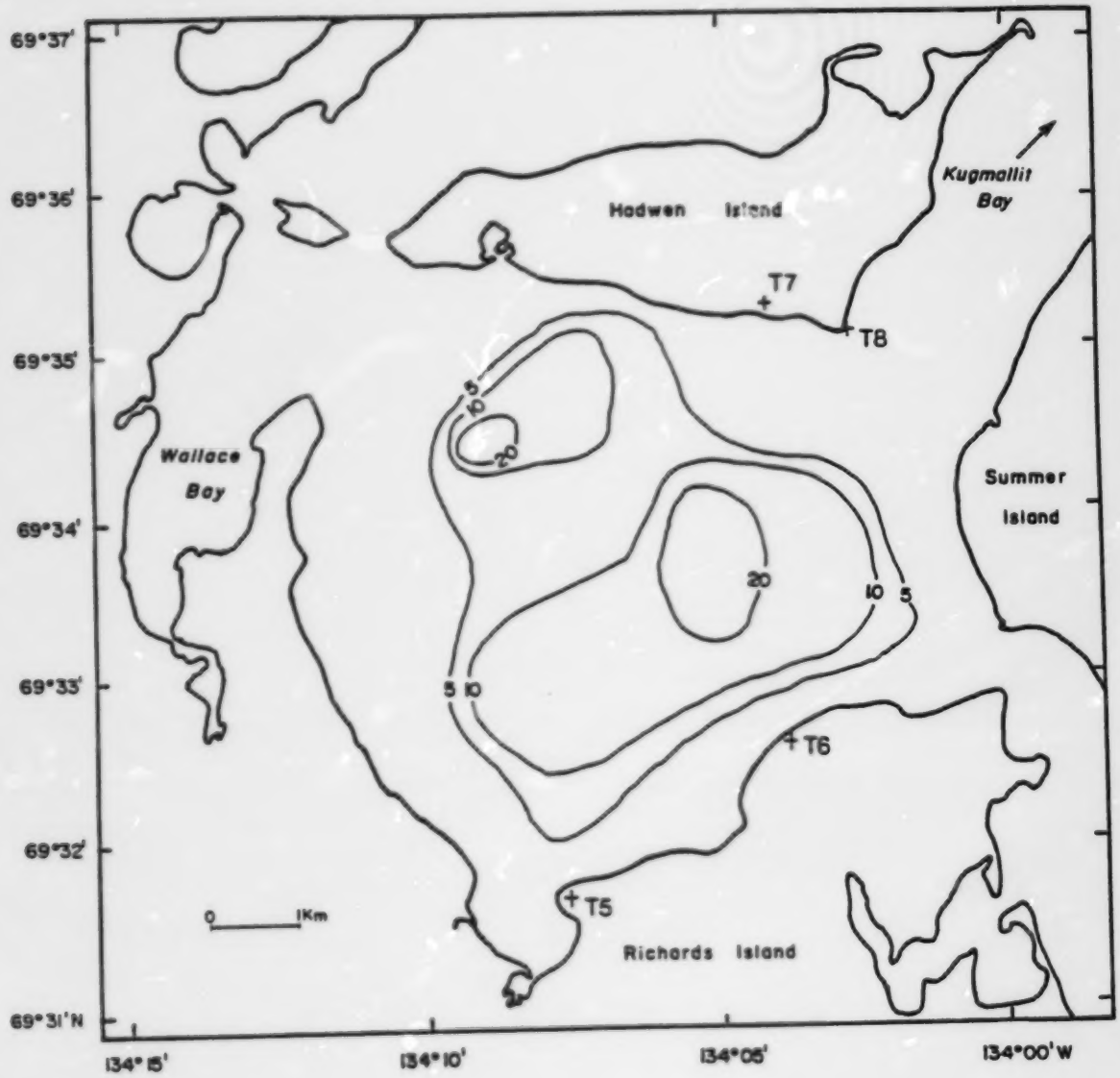

Fig. 3. Bathymetric chart of Mason Bay. Target locations, T5 to T8, are shown.

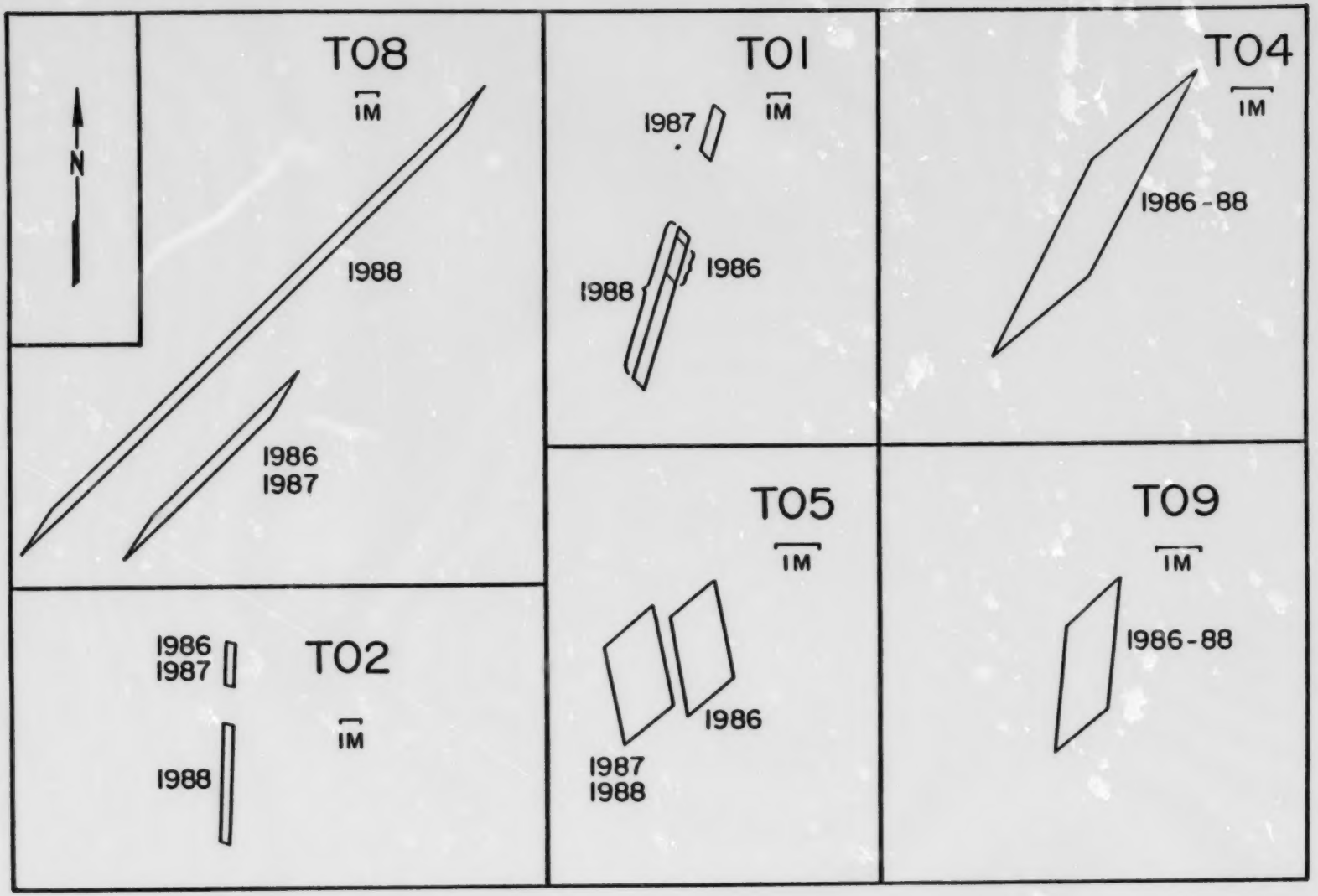

Fig. 4. Estimated boundaries of pin locations for the NOGAP Subproject B2.3 stations on Tuktoyaktuk Harbour, 1986 to 1988.

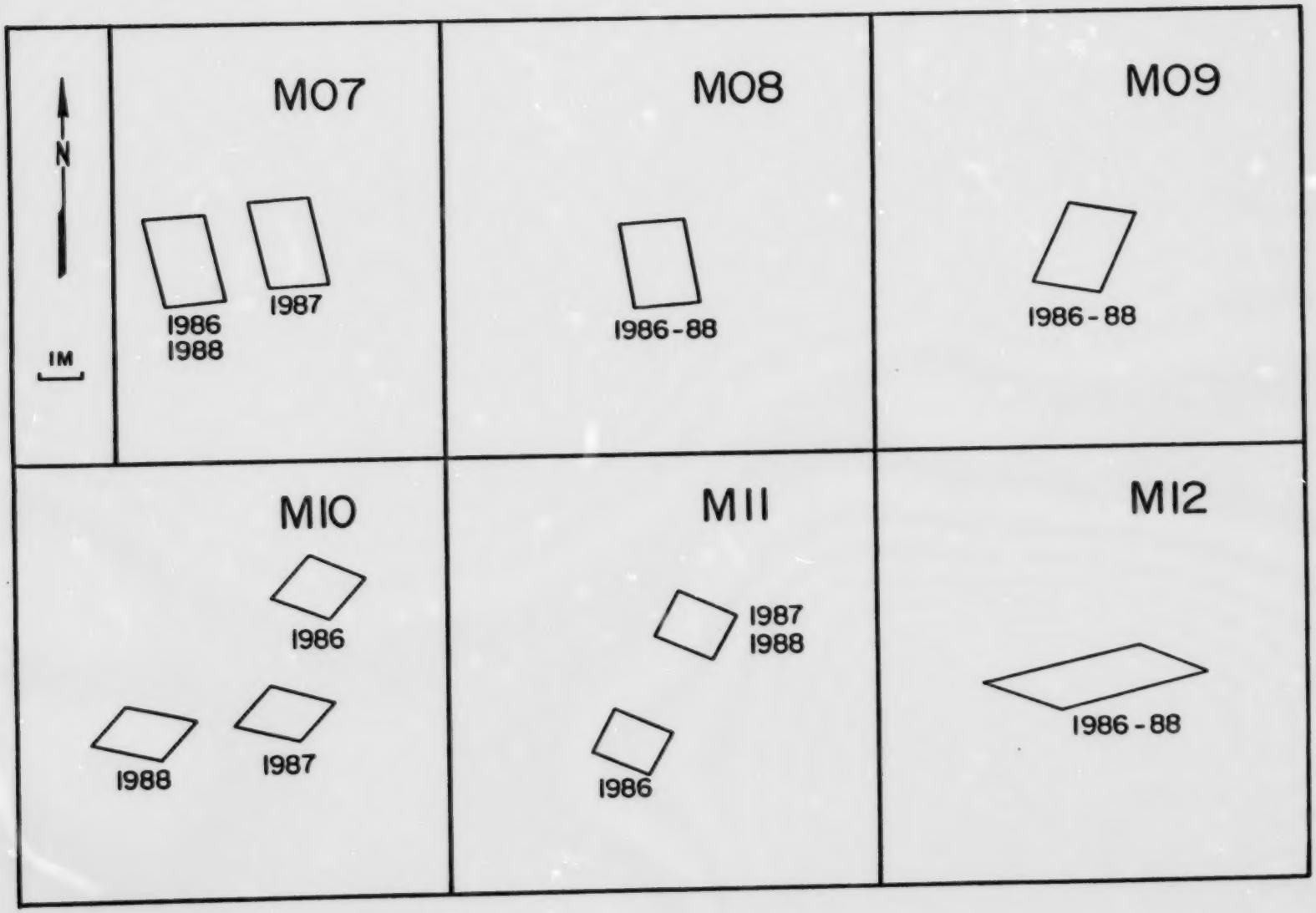

Fig. 5. Estimated boundaries of pin locations for the NOGAP Subproject B2.3 stations on Mason Bay, 1986 to 1988.

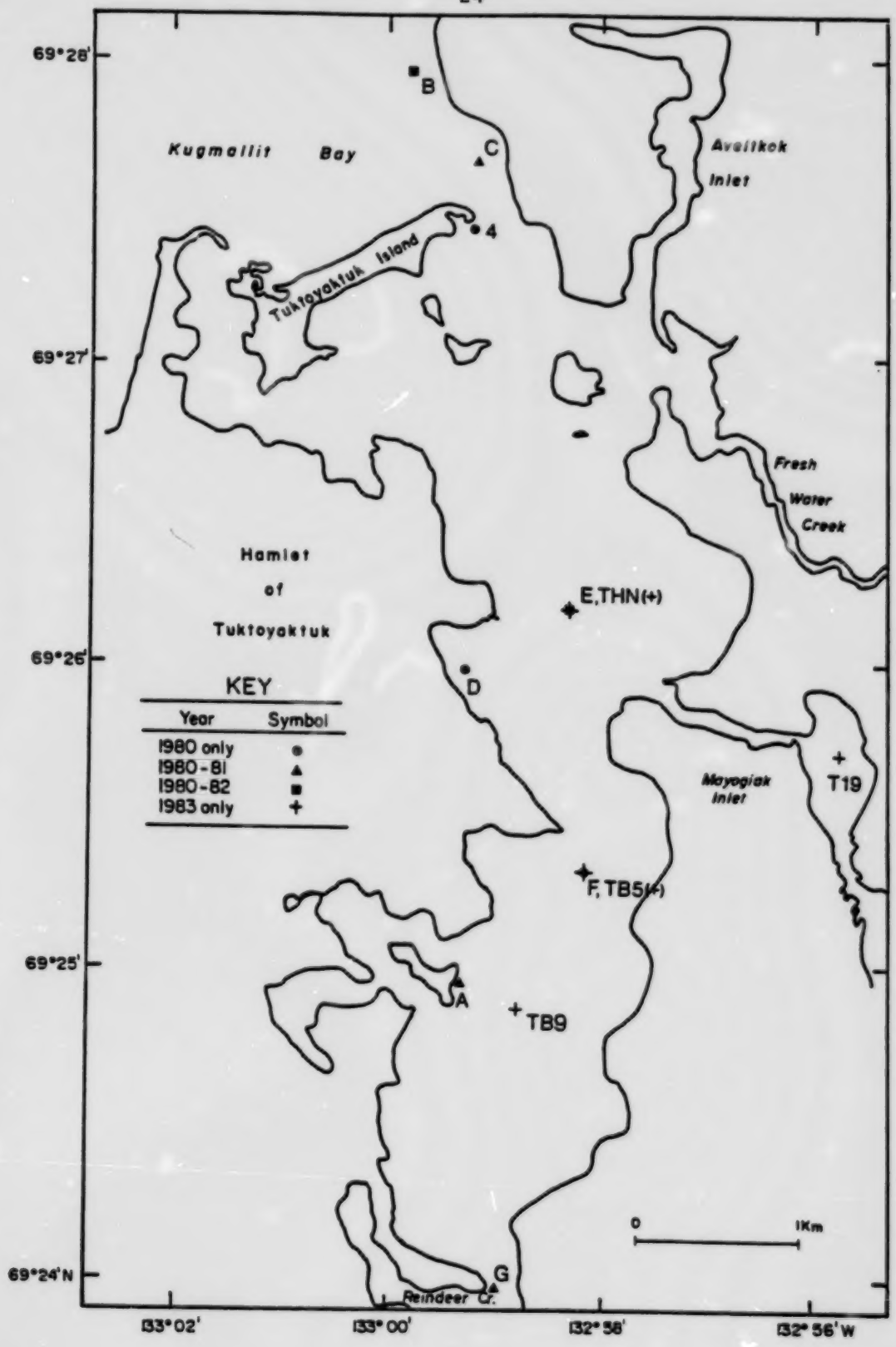

Fig. 6. Station locations on Tuktoyaktuk Harbour, 1980 to 1983.

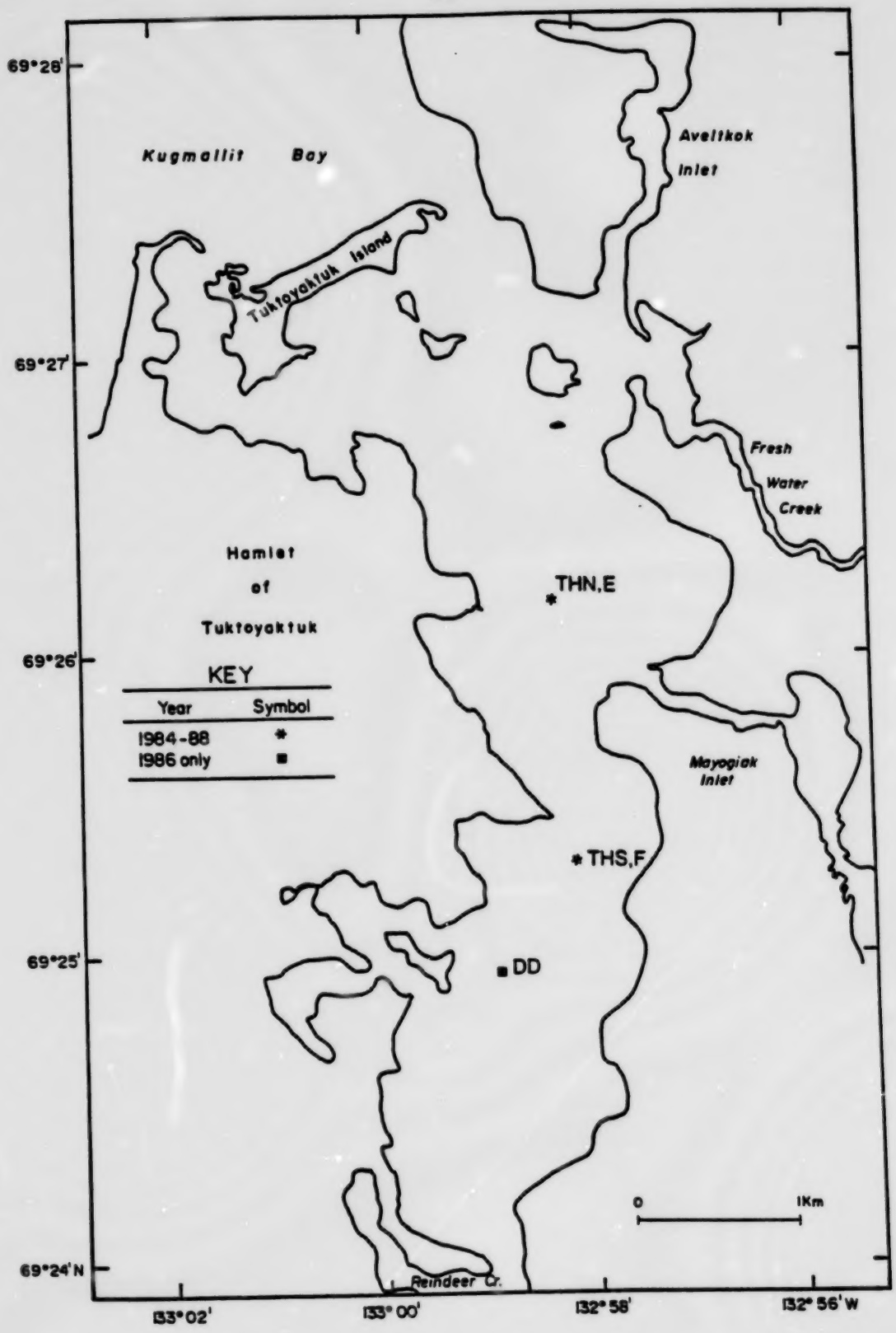

Fig. 7. Locations of the NOGAP Subproject B2.1 stations on Tuktoyaktuk Harbour, 1984 to 1987.

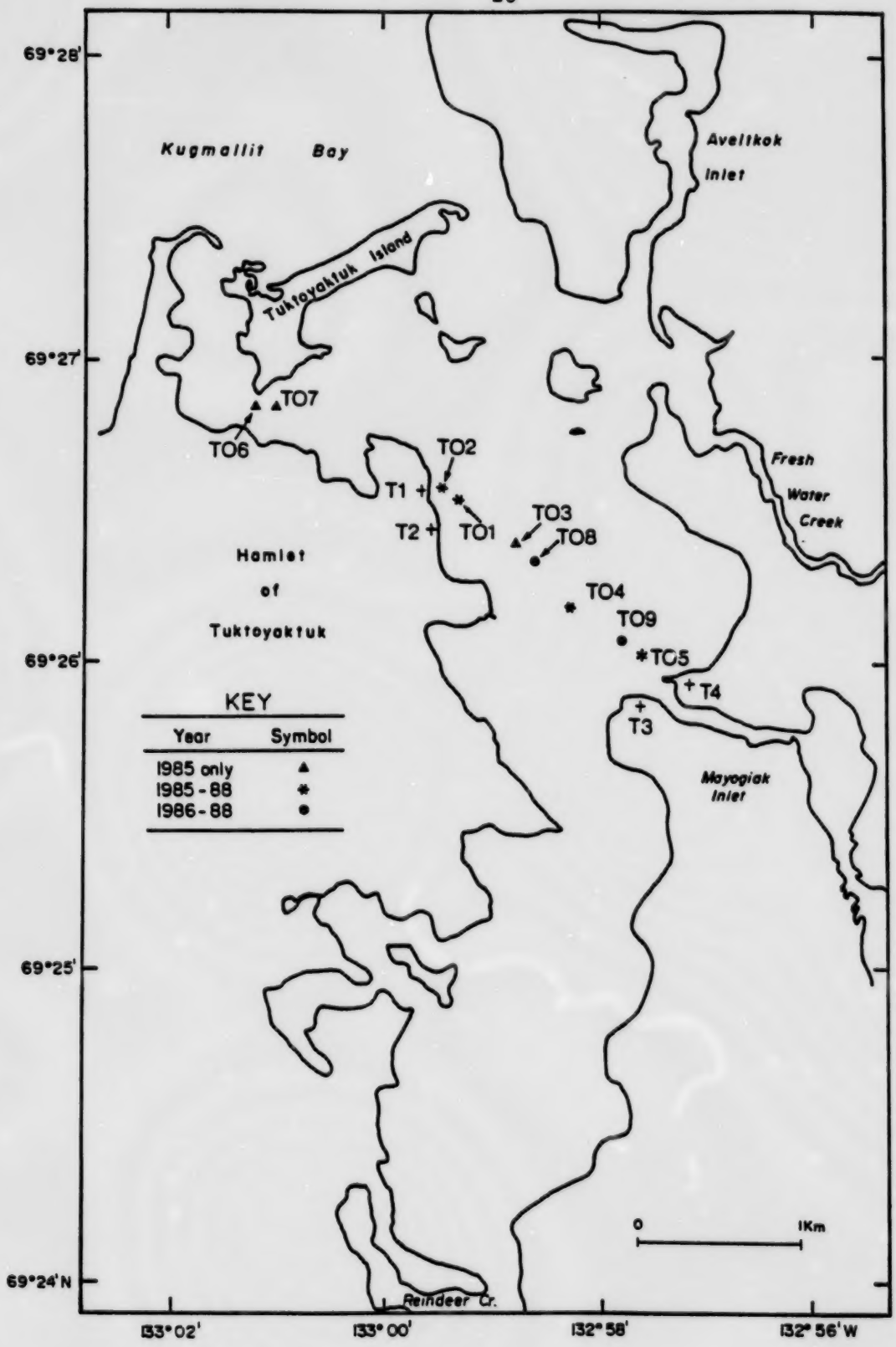

Fig. 8. Locations of the NOGAP Subproject B2.3 stations on Tuktoyaktuk Harbour, 1985 to 1988.

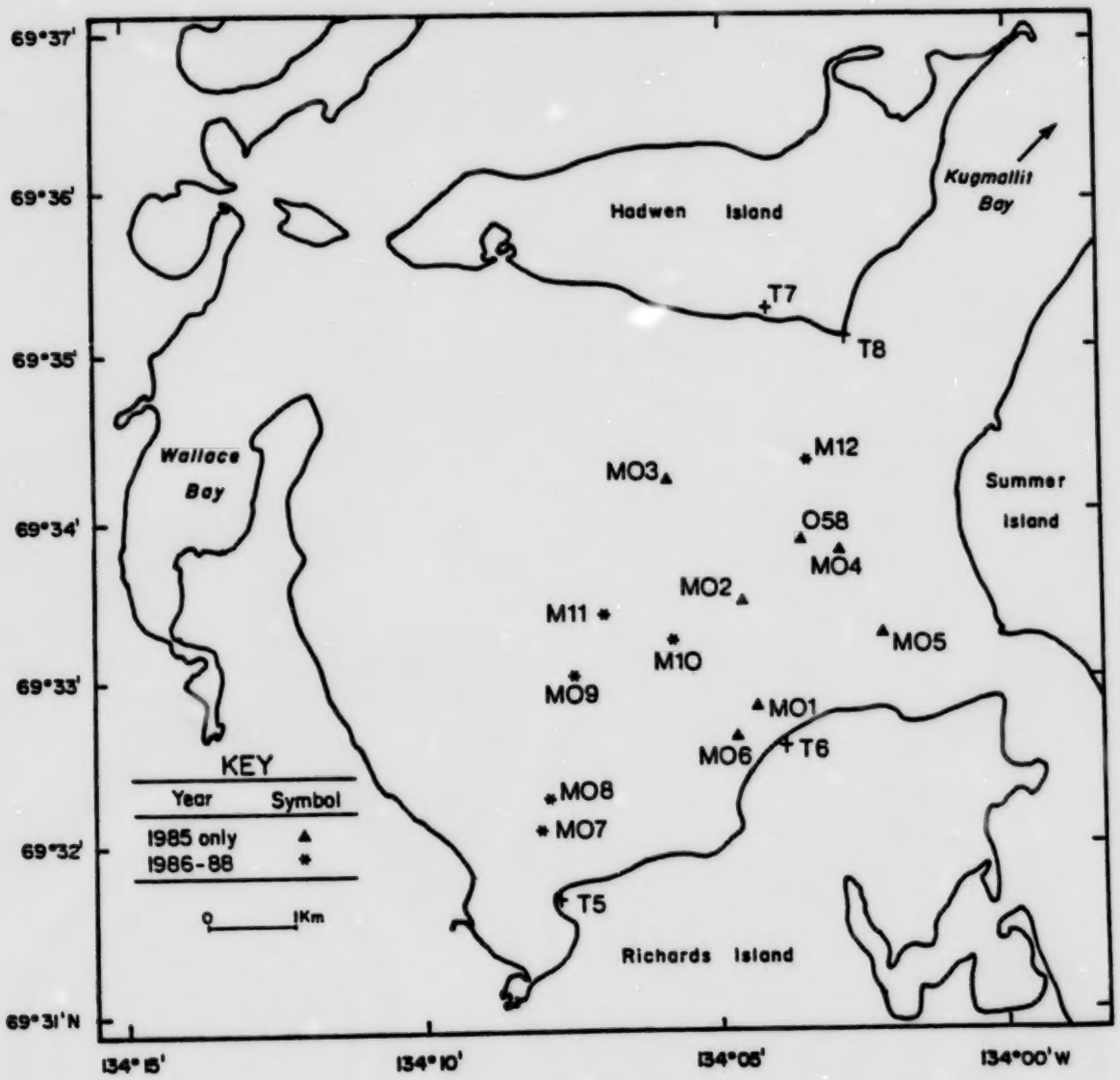

Fig. 9. Locations of the NOGAP Subproject B2.3 stations on Mason Bay, 1985 to 1988.

APPENDIX A1 TO A9

CTD data tables and plotted profiles.

Note: In all Tables the notation kg.m**-3 is equivalent to: $kg \cdot m^{-3}$.

Table A1.1. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80400, April 12, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.9	0.09										

Table A1.2. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80A00, April 18, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.5	0.24			3.0	7.19			5.8	11.59		

Table A1.3. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80B00, April 18, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.5	0.13			3.5	4.67						

Table A1.4. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80C00, April 18, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.3	0.90										

Table A1.5. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80D00, April 18, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.5	0.60			4.1	8.53						

Table A1.6. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80E00, April 18, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.81			7.0	9.50			20.0	30.24		
5.0	8.61			10.0	15.71						

Table A1.7. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80F00, April 18, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.78			7.0	11.71			20.0	29.18		
5.0	8.79			10.0	19.85			23.0	27.65		

Table A1.8. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80G00, April 18, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.88			5.0	8.00			7.8	21.01		

Table A1.9. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80E00, May 29, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.56			7.0	7.58			15.0	30.16		
5.0	3.92			10.0	26.13			20.0	30.16		

Table A1.10. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80G00, May 29, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.86			4.0	2.05			6.0	19.62		

Table A1.11. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80A00, May 30, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.25			4.0	1.10			5.5	22.80		

Table A1.12. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80B00, May 30, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.07			4.0	0.35						

Table A1.13. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80C00, May 30, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.69			4.5	0.87						

Table A1.14. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80A00, July 9, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.22			3.0	1.66						
1.0	1.30			5.5	19.02						

Table A1.15. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80C00, July 9, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.36			3.0	5.88						
1.0	2.17			4.5	26.22						

Table A1.16. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80E00, July 9, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.96			5.0	20.43			19.0	27.79		
1.0	1.99			7.0	24.01						
3.0	8.78			10.0	26.12						

Table A1.17. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80G00, July 9, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.56			3.0	8.19			7.0	20.90		
1.0	1.55			5.0	19.84						

Table A1.18. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80B00, July 10, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.18			2.0	2.07						
1.0	0.18			3.0	26.41						

Table A1.19. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80A00, July 13, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	16.98			3.0	25.50						
1.0	17.84			5.5	27.41						

Table A1.20. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80B00, July 13, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	24.83			2.0	28.84						
1.0	26.47			3.0	30.21						

Table A1.21. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80C00, July 13, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	14.39			3.0	23.20						
1.0	15.43			4.5	26.59						

Table A1.22. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80E00, July 14, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	18.44			5.0	24.68			19.0	28.92		
1.0	18.45			7.0	26.28						
3.0	19.55			10.0	27.52						

Table A1.23. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80G00, July 14, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.0	9.26			5.0	23.03						
3.0	17.67			7.0	24.98						

Table A1.24. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80A00, July 21, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.38			3.0	21.06						
1.0	5.49			5.0	25.51						

Table A1.25. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80B00, July 21, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.52			2.0	24.92						
1.0	1.87			3.0	31.31						

Table A1.26. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80C00, July 21, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.62			3.0	23.53						
1.0	4.86			4.5	29.33						

Table A1.27. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80E00, July 22, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	8.00			5.0	25.98			19.0	29.37		
1.0	8.42			7.0	26.89						
3.0	24.37			10.0	28.65						

Table A1.28. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80G00, July 22, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	8.26			3.0	18.84			7.0	26.11		
1.0	8.27			5.0	25.43						

Table A1.29. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80A00, July 28, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	8.68			3.0	16.93						
1.0	8.75			5.5	22.27						

Table A1.30. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80B00, July 28, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	17.06			2.0	16.95						
1.0	16.98			3.0	17.73						

Table A1.31. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80C00, July 28, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	10.50			3.0	15.82						
1.0	10.46			4.5	20.75						

Table A1.32. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80E00, July 29, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	9.23			5.0	21.54			19.0	29.82		
1.0	9.25			7.0	25.66						
3.0	13.76			10.0	28.54						

Table A1.33. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80G00, July 29, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	9.67			3.0	9.51			7.0	25.65		
1.0	9.15			5.0	20.30						

Table A1.34. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80A00, August 7, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	7.82			3.0	17.19						
1.0	7.82			6.5	23.71						

Table A1.35. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80B00, August 7, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	8.07			2.0	16.61						
1.0	9.36			3.5	28.14						

Table A1.36. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80C00, August 7, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	7.89			3.0	16.34						
1.0	8.90			5.5	24.10						

Table A1.37. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80E00, August 7, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	9.53			5.0	24.18			20.5	29.79		
1.0	9.66			7.0	25.58						
3.0	19.89			10.0	27.76						

Table A1.38. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80G00, August 7, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	10.91			3.0	16.66			7.0	23.90		
1.0	10.91			5.0	22.99			9.0	24.89		

Table A1.39. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80A00, August 12, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	7.02			3.0	14.26						
1.0	7.63			5.5	23.75						

Table A1.40. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80B00, August 12, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.88			2.0	6.86						
1.0	4.74			3.0	19.49						

Table A1.41. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80C00, August 12, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	6.29			3.0	16.44						
1.0	9.12			5.0	24.53						

Table A1.42. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80E00, August 12, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	9.17			5.0	20.26			19.0	29.75		
1.0	9.11			7.0	25.72						
3.0	15.14			10.0	27.82						

Table A1.43. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80G00, August 12, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	9.69			3.0	15.78			7.0	23.97		
1.0	9.70			5.0	22.26						

Table A1.44. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80E00, September 10, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.06			5.0	7.18			19.0	28.56		
1.0	4.08			7.0	19.85						
3.0	4.40			10.0	27.42						

Table A1.45. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80G00, September 10, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.86			3.0	5.02			7.0	10.54		
1.0	4.85			5.0	7.64			9.0	23.29		

Table A1.46. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80A00, September 11, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	3.69			3.0	3.96						
1.0	3.68			7.5	23.90						

Table A1.47. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80B00, September 11, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	3.00			2.0	3.80						
1.0	3.10			3.5	6.79						

Table A1.48. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 80C00, September 11, 1980.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	3.40			3.0	4.80						
1.0	4.23			5.5	8.76						

Table A2.1. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81A00, January 10, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.5	0.42			5.0	16.80						
3.0	0.57			7.0	22.79						

Table A2.2. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81B00, January 10, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.5	0.49			4.1	4.11						

Table A2.3. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81C00, January 10, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.5	0.49			3.0	0.53			6.0	22.92		

Table A2.4. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, January 10, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.5	0.65			7.0	21.68			18.0	26.61		
3.0	0.78			10.0	24.30						
5.0	19.65			15.0	25.38						

Table A2.5. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81G00, January 10, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.5	1.05			5.0	21.09			9.3	22.25		
3.0	1.14			7.0	21.48						

Table A2.6. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81B00, March 23, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.19			3.0	1.72						

Table A2.7. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81C00, March 23, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.55			4.0	4.31						

Table A2.8. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, March 23, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.90			7.0	20.29			18.0	26.92		
3.0	0.92			10.0	24.43						
5.0	2.61			15.0	24.96						

Table A2.9. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81G00, March 23, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.87			5.0	4.14			9.0	19.88		
3.0	0.87			7.0	18.84						

Table A2.10. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station B1B00, June 29, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.07			3.0	0.07						
1.0	0.07			4.5	0.07						

Table A2.11. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station B1E00, June 29, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.11			5.0	1.27			21.5	28.39		
1.0	1.12			7.0	5.78						
3.0	1.12			10.0	23.45						

Table A2.12. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station B1B00, July 6, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.16			3.0	0.18						
1.0	0.17			4.5	0.21						

Table A2.13. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, July 6, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.00			5.0	1.25			21.5	28.05		
1.0	1.00			7.0	1.71						
3.0	1.07			10.0	20.37						

Table A2.14. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81B00, July 13, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.43			3.0	0.61						
1.0	0.43			3.5	1.86						

Table A2.15. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, July 13, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.39			5.0	1.41			21.5	27.58		
1.0	1.39			7.0	1.43						
3.0	1.41			10.0	20.93						

Table A2.16. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station B1B00, July 20, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	3.18			3.0	3.12						
1.0	3.18			4.0	3.17						

Table A2.17. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station B1E00, July 20, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	2.42			5.0	2.50			18.0	25.52		
1.0	2.43			7.0	10.61						
3.0	2.43			10.0	18.14						

Table A2.18. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station B1B00, July 27, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.66			3.0	1.03						
1.0	0.66			4.5	10.68						

Table A2.19. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, July 27, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.85			5.0	10.99			21.5	27.49		
1.0	4.83			7.0	12.49						
3.0	5.28			10.0	16.92						

Table A2.20. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81B00, August 5, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.61			3.0	1.95						
1.0	1.60			4.0	2.79						

Table A2.21. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, August 5, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.38			5.0	5.98			20.0	27.05		
1.0	4.38			7.0	8.29						
3.0	4.60			10.0	16.75						

Table A2.22. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81B00, August 11, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.49			3.0	1.52						
1.0	0.45			4.5	8.00						

Table A2.23. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, August 11, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.44			5.0	4.38			21.5	27.01		
1.0	3.35			7.0	6.33						
3.0	3.77			10.0	15.59						

Table A2.24. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81B00, August 18, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	2.31			3.0	2.64						
1.0	2.33			4.5	7.59						

Table A2.25. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, August 18, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.82			5.0	5.06			20.0	26.88		
1.0	4.84			7.0	6.64						
3.0	4.86			10.0	15.51						

Table A2.26. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81B00, August 25, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	3.55			3.0	3.70						
1.0	3.55			4.5	11.18						

Table A2.27. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, August 25, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.57			5.0	4.64			21.5	26.79		
1.0	4.58			7.0	4.85						
3.0	4.60			10.0	11.77						

Table A2.28. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81B00, September 2, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.73			3.0	2.97						
1.0	0.74			4.5	3.39						

Table A2.29. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 81E00, September 2, 1981.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	2.50			5.0	3.00			20.0	26.54		
1.0	2.61			7.0	3.50						
3.0	2.77			10.0	4.58						

Table A3.1. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82B00, May 9, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.17			5.0	0.17						

Table A3.2. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E00, May 9, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
2.0	0.64			7.0	21.60			20.5	24.60		
3.0	0.73			10.0	23.58						
5.0	1.01			15.0	24.06						

Table A3.3. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E00, July 11, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	11.46			4.0	26.28			10.0	28.29		
2.0	18.01			5.0	26.99			15.0	28.84		
3.0	22.32			8.0	28.01			18.5	28.85		

STATION: 82B00 DATE: 21 July 1982

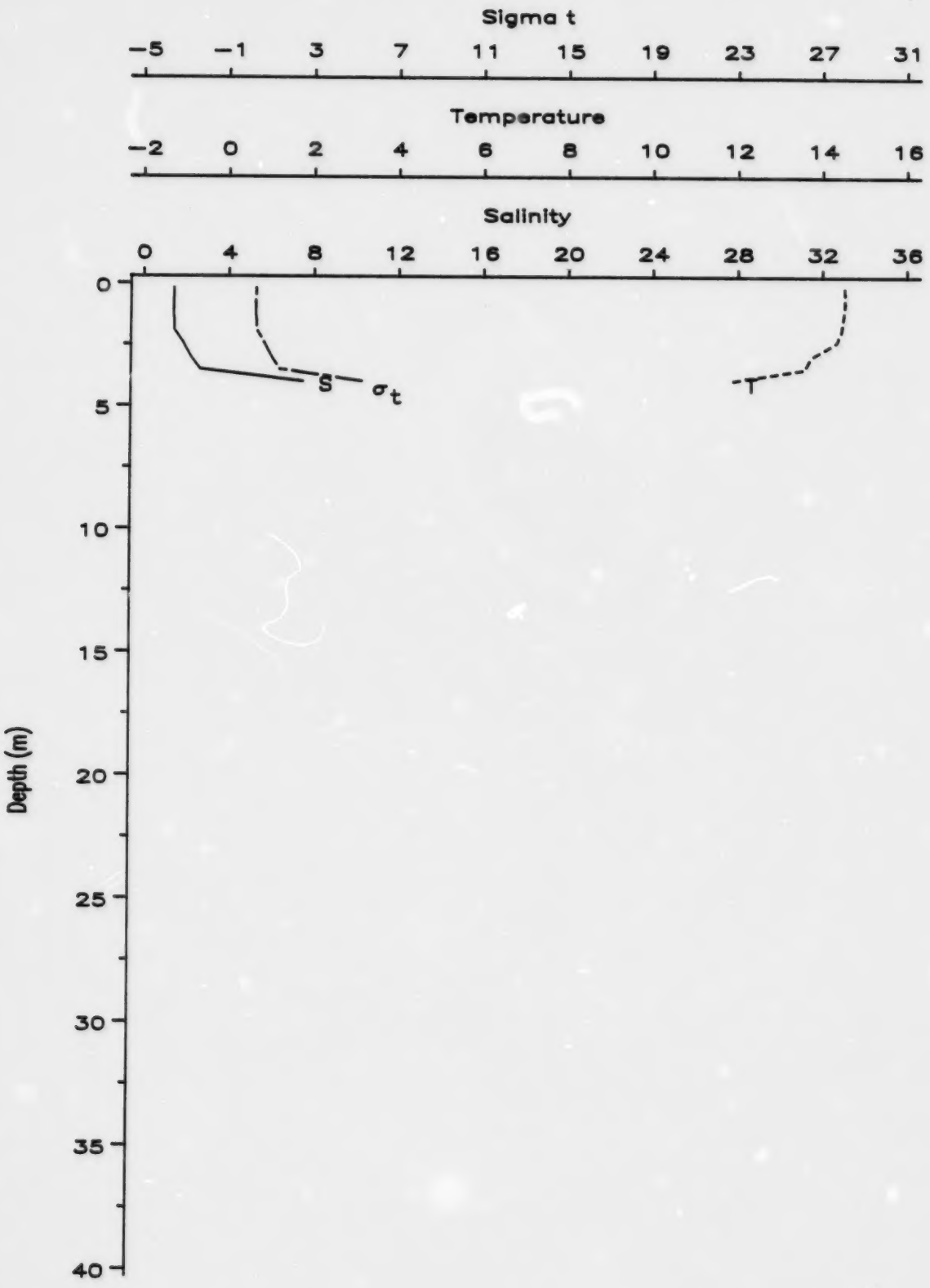

Table A3.4. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82B00, July 21, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	1.42	14.52	1000.27	1.5	1.43	14.48	1000.28	3.0	2.21	13.73	1001.00
0.8	1.39	14.53	1000.24	1.9	1.43	14.45	1000.29	3.5	2.65	13.57	1001.36
1.3	1.39	14.50	1000.25	2.4	1.84	14.33	1000.63	4.0	7.47	11.77	1005.33

STATION: 82E01 DATE: 21 July 1982

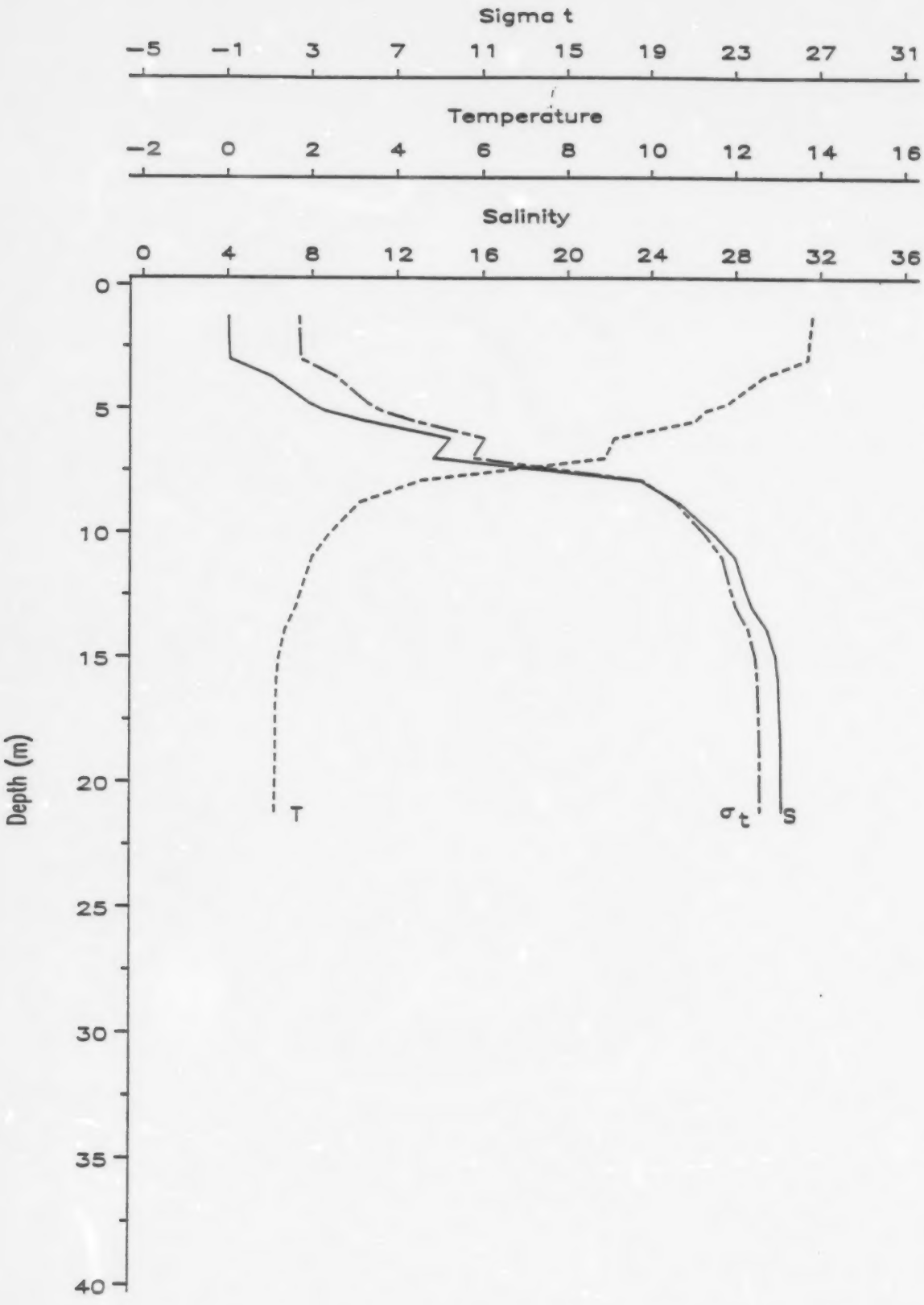

Table A3.5. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E01, July 21, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.3	4.06	13.80	1002.41	7.0	13.68	8.87	1010.49	15.0	29.87	1.22	1023.91
2.0	4.06	13.75	1002.42	7.9	23.42	4.56	1018.55	15.9	29.98	1.17	1024.00
3.0	4.13	13.69	1002.48	8.8	25.29	3.13	1020.14	17.0	30.03	1.14	1024.05
3.7	6.07	12.66	1004.12	10.1	26.99	2.40	1021.54	18.1	30.09	1.14	1024.09
4.8	7.89	11.79	1005.65	11.0	27.95	2.00	1022.33	19.0	30.11	1.14	1024.11
5.1	8.65	11.25	1006.30	12.3	28.44	1.75	1022.73	19.9	30.11	1.13	1024.11
5.5	10.51	11.02	1007.78	13.0	28.75	1.62	1022.99	21.0	30.13	1.12	1024.12
6.2	14.45	9.09	1011.07	13.9	29.46	1.37	1023.57	21.2	30.12	1.12	1024.12

Table A3.6. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E02, July 21, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.28			5.0	14.97			15.0	30.47		
1.0	1.28			7.0	24.73			20.0	30.57		
3.0	2.30			10.0	28.82						

STATION: 82E00 DATE: 27 July 1982

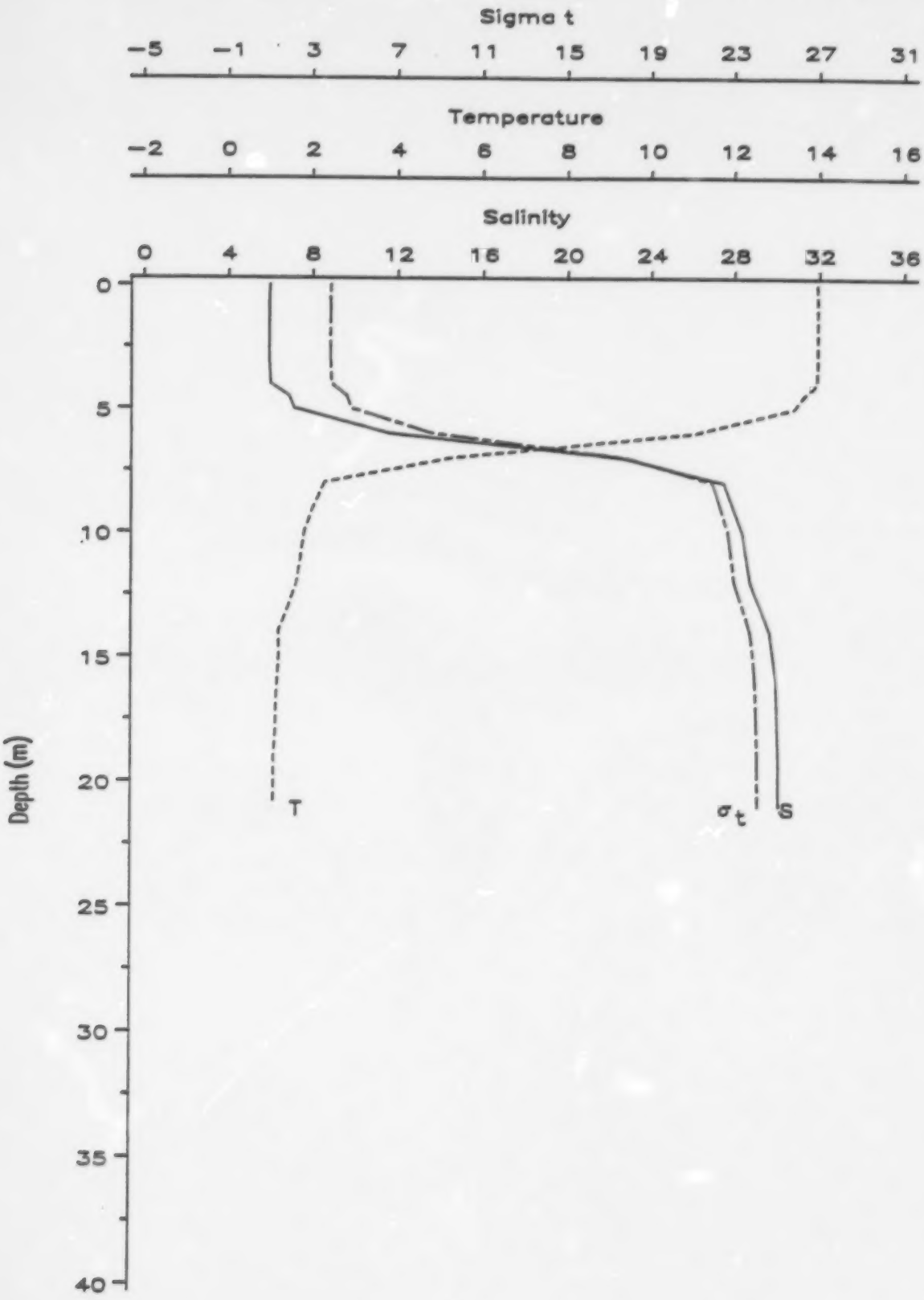

Table A3.7. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E00, July 27, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	5.97	13.95	1003.86	4.5	6.88	13.62	1004.61	13.0	29.19	1.43	1023.35
0.5	5.94	13.96	1003.83	5.0	7.12	13.40	1004.83	14.0	29.65	1.20	1023.73
1.0	5.94	13.96	1003.84	6.0	11.57	11.02	1008.59	15.0	29.81	1.21	1023.87
1.5	5.94	13.96	1003.83	7.0	22.59	5.25	1017.83	16.0	29.94	1.17	1023.97
2.0	5.94	13.96	1003.83	8.0	27.47	2.28	1021.93	17.0	29.99	1.14	1024.01
2.5	5.93	13.96	1003.83	9.0	27.92	2.01	1022.31	18.0	30.02	1.13	1024.04
3.0	5.94	13.96	1003.83	10.0	28.36	1.80	1022.67	19.0	30.06	1.09	1024.07
3.5	5.97	13.95	1003.86	11.0	28.54	1.71	1022.82	20.0	30.06	1.09	1024.07
4.0	6.00	13.93	1003.88	12.0	28.73	1.63	1022.97	21.0	30.07	1.08	1024.08

STATION: 82B01 DATE: 29 July 1982

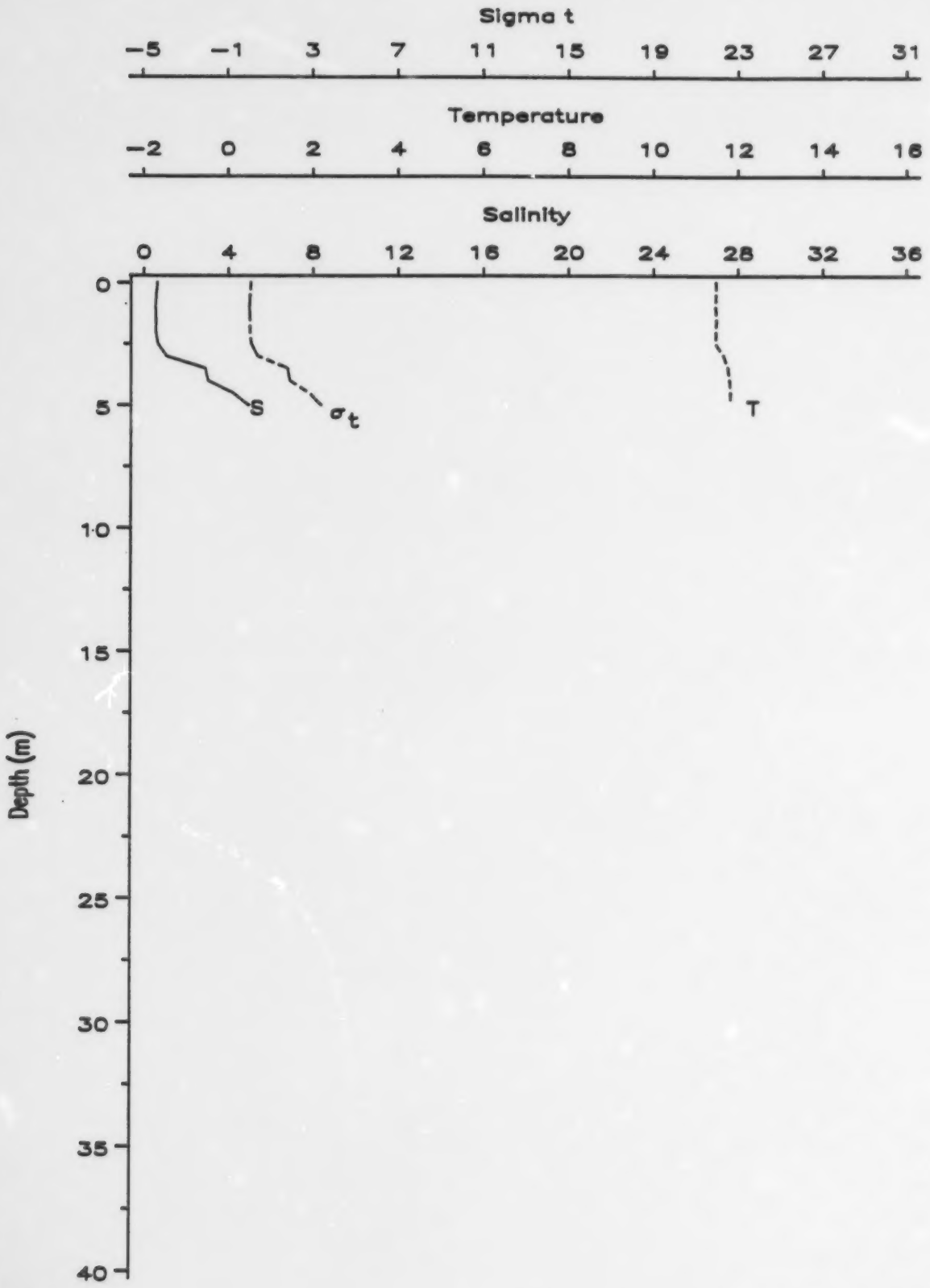

Table A3.8. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82801, July 29, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.63	11.48	1000.05	2.0	0.56	11.48	1000.00	4.0	3.03	11.80	1001.88
0.5	0.58	11.48	1000.01	2.5	0.66	11.47	1000.07	4.5	4.21	11.82	1002.79
1.0	0.54	11.47	999.98	3.0	1.07	11.66	1000.38	5.0	4.93	11.82	1003.35
1.5	0.57	11.49	1000.00	3.5	2.91	11.76	1001.79				

Table A3.9. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82802, July 29, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.59			3.0	4.07						
1.0	4.59			4.0	3.85						

STATION: 82E01 DATE: 29 July 1982

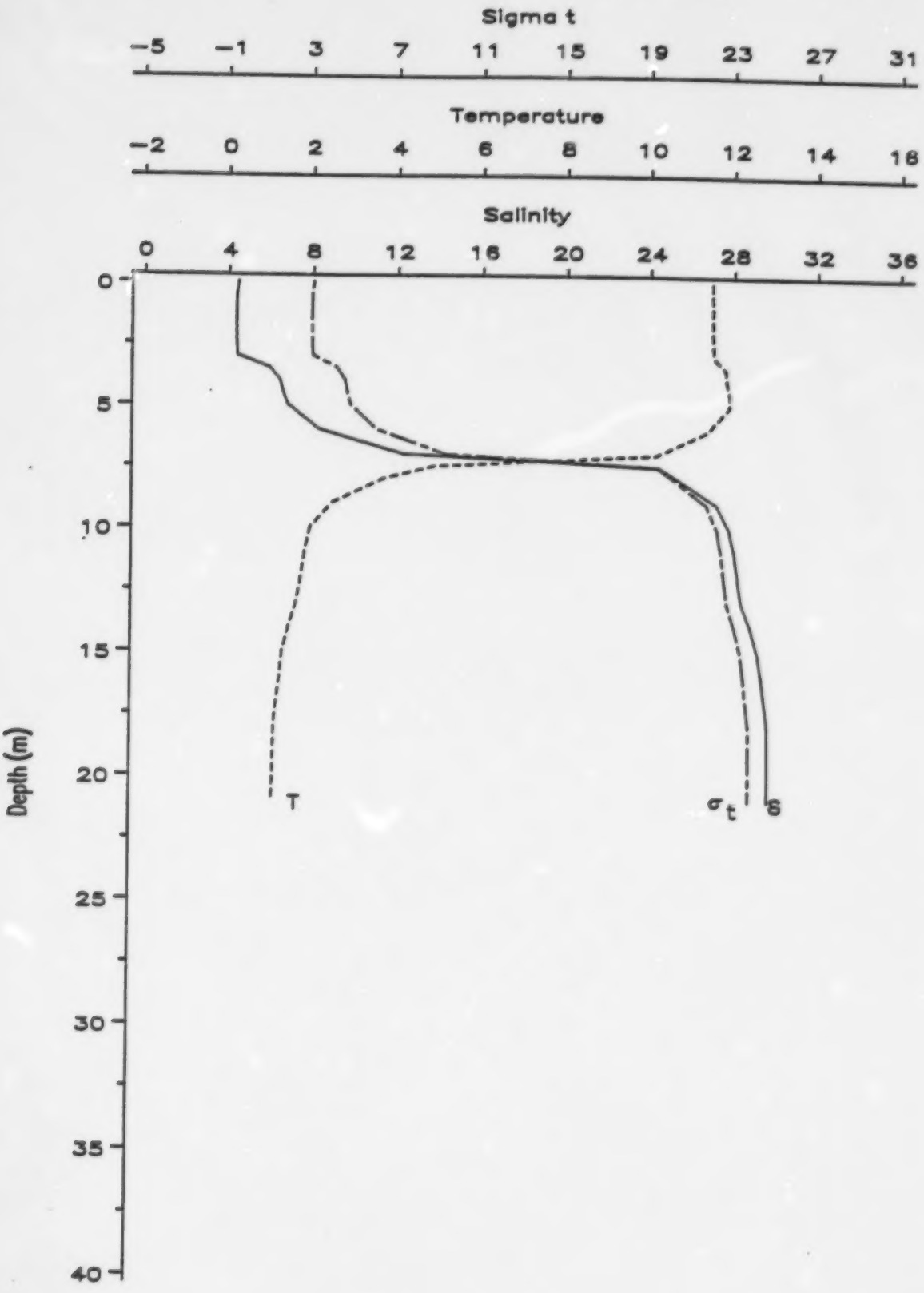

Table A3.10. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E01, July 29, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.45	11.48	1003.02	5.0	6.80	11.89	1004.79	14.0	28.83	1.46	1023.06
0.5	4.36	11.48	1002.95	6.0	8.29	11.37	1006.01	15.0	29.16	1.31	1023.34
1.0	4.35	11.49	1002.94	7.0	12.27	10.13	1009.25	16.0	29.35	1.25	1023.49
1.5	4.34	11.49	1002.93	7.5	24.43	4.86	1019.32	17.0	29.50	1.18	1023.61
2.0	4.35	11.49	1002.94	8.0	25.38	3.70	1020.16	18.0	29.65	1.12	1023.74
2.5	4.36	11.50	1002.95	9.0	27.18	2.47	1021.68	19.0	29.66	1.11	1023.75
3.0	4.41	11.52	1002.98	10.0	27.77	1.95	1022.19	20.0	29.67	1.10	1023.76
3.5	5.94	11.80	1004.14	11.0	28.03	1.82	1022.40	21.0	29.67	1.08	1023.75
4.0	6.44	11.82	1004.52	12.0	28.19	1.74	1022.54				
4.5	6.59	11.89	1004.63	13.0	28.37	1.64	1022.68				

Table A3.11. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E02, July 29, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	5.05			5.0	7.42			15.0	29.91		
1.0	5.05			7.0	16.10			20.0	30.38		
3.0	5.59			10.0	28.46						

Table A3.12. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82B00, August 6, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.51			3.0	1.23						
1.0	0.51			4.5	3.70						

STATION: 82E01 DATE: 6 August 1982

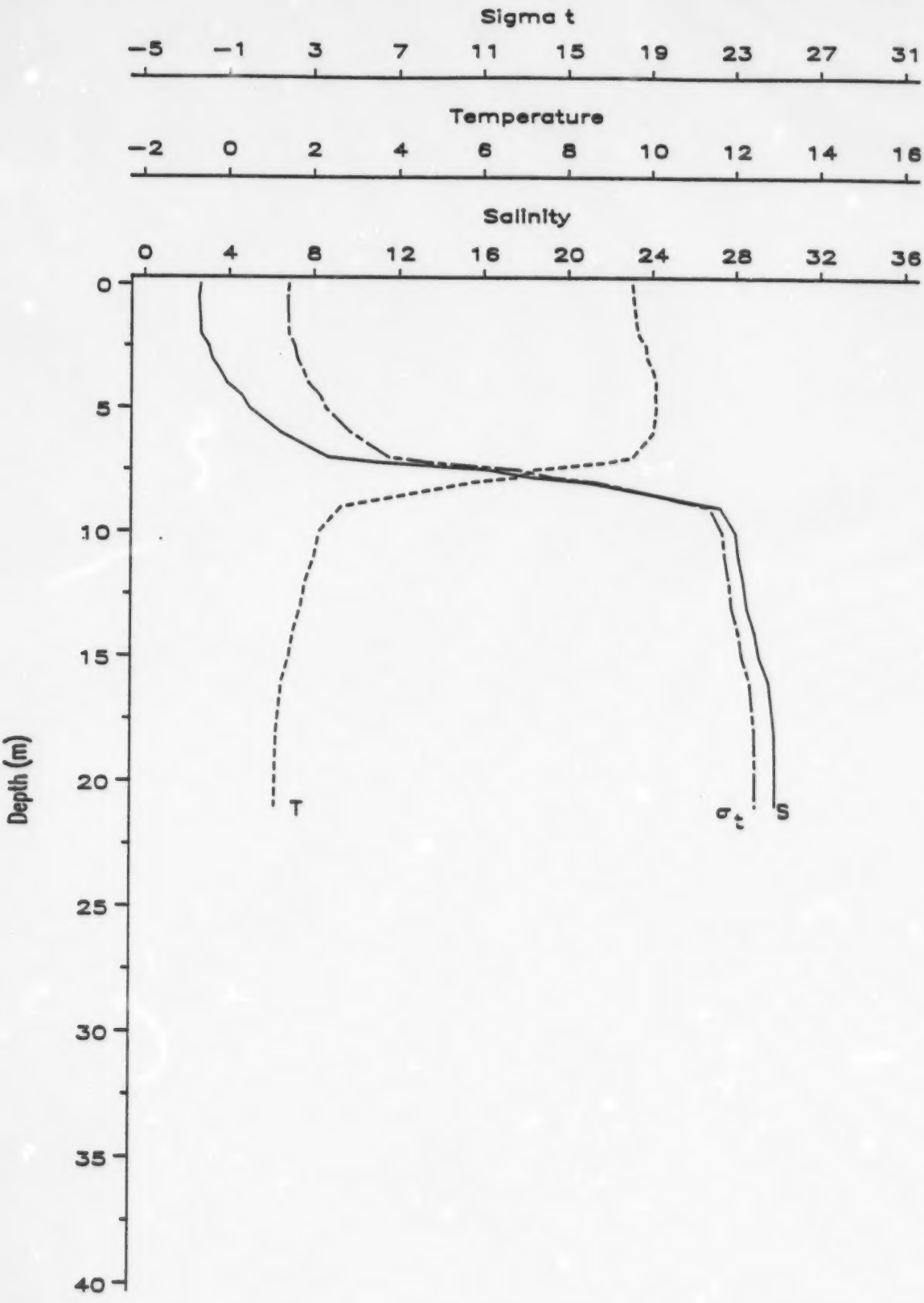

Table A3.13. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E01, August 6, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	2.64	9.52	1001.82	5.0	4.96	10.08	1003.57	12.0	28.35	1.81	1022.66
0.5	2.57	9.54	1001.76	6.0	6.47	10.00	1004.76	13.0	28.50	1.70	1022.78
1.0	2.60	9.57	1001.78	7.0	8.71	9.50	1006.55	14.0	28.88	1.53	1023.10
1.5	2.64	9.61	1001.80	7.2	10.94	8.84	1008.36	15.0	29.10	1.43	1023.28
2.0	2.66	9.65	1001.82	7.5	16.21	7.17	1012.64	16.0	29.55	1.26	1023.65
2.5	3.05	9.84	1002.11	7.8	18.26	6.81	1014.28	17.0	29.68	1.20	1023.76
3.0	3.20	9.87	1002.22	8.0	20.87	5.75	1016.43	18.0	29.81	1.14	1023.87
3.5	3.58	10.01	1002.51	9.0	27.24	2.65	1021.72	19.0	29.84	1.12	1023.89
4.0	3.90	10.08	1002.75	10.0	27.97	2.13	1022.33	20.0	29.85	1.11	1023.90
4.5	4.62	10.06	1003.31	11.0	28.11	2.01	1022.45	21.0	29.85	1.10	1023.90

Table A3.14. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E02, August 6, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	3.30			5.0	6.02			15.0	29.81		
1.0	3.34			7.0	11.27			20.0	30.51		
3.0	4.21			10.0	28.34						

STATION: 82B01 DATE: 11 August 1982

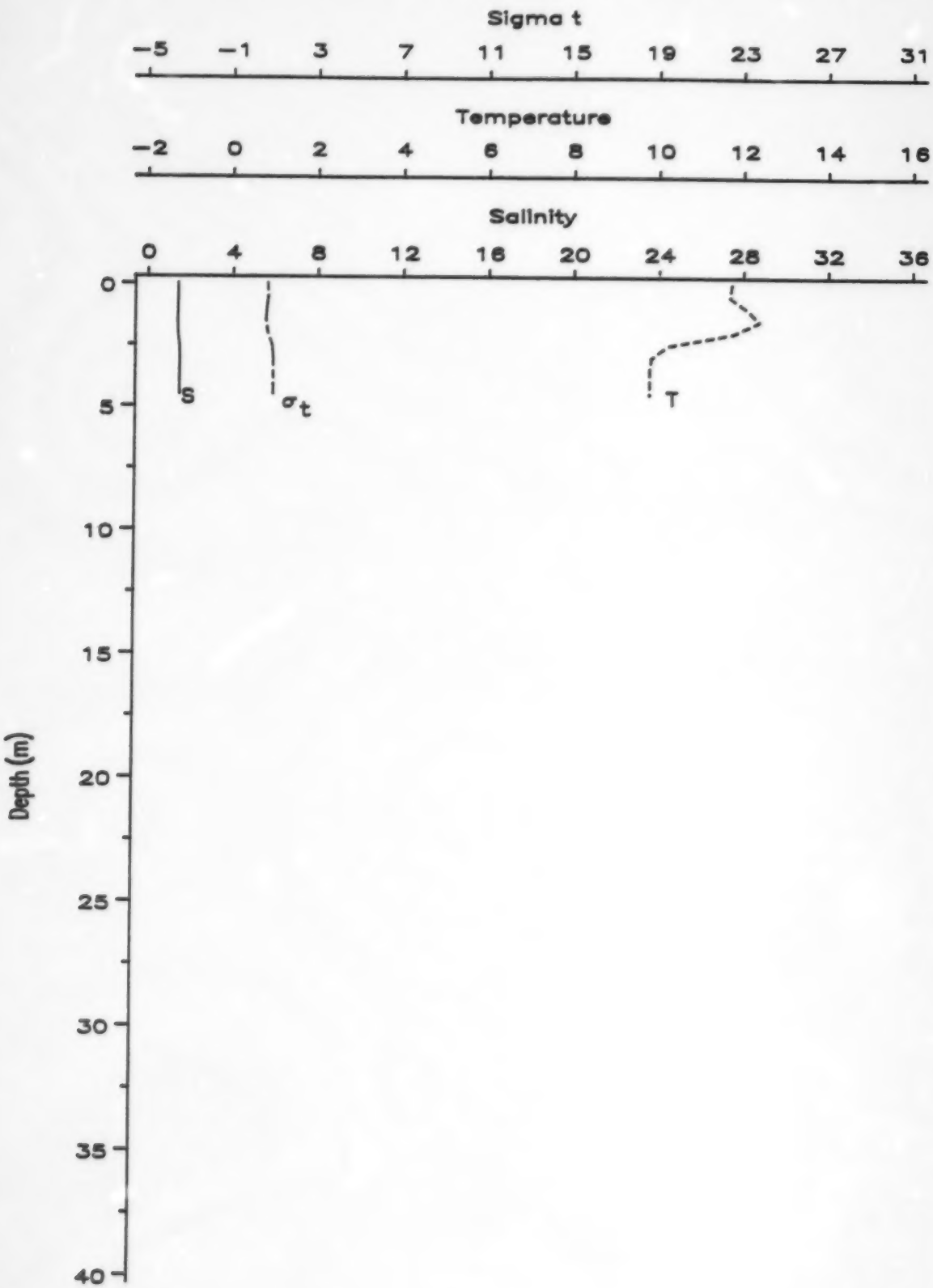

Table A3.15. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82801, August 11, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.40	11.71	1000.62	2.0	1.40	11.75	1000.62	4.0	1.47	9.77	1000.88
0.5	1.40	11.67	1000.63	2.5	1.46	10.20	1000.83	4.5	1.47	9.77	1000.88
1.0	1.39	12.07	1000.57	3.0	1.47	9.81	1000.88				
1.5	1.37	12.37	1000.53	3.5	1.47	9.77	1000.88				

Table A3.16. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82802, August 11, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	2.10			3.0	8.31						
1.0	2.44			4.5	8.50						

STATION: 82E01 DATE: 11 August 1982

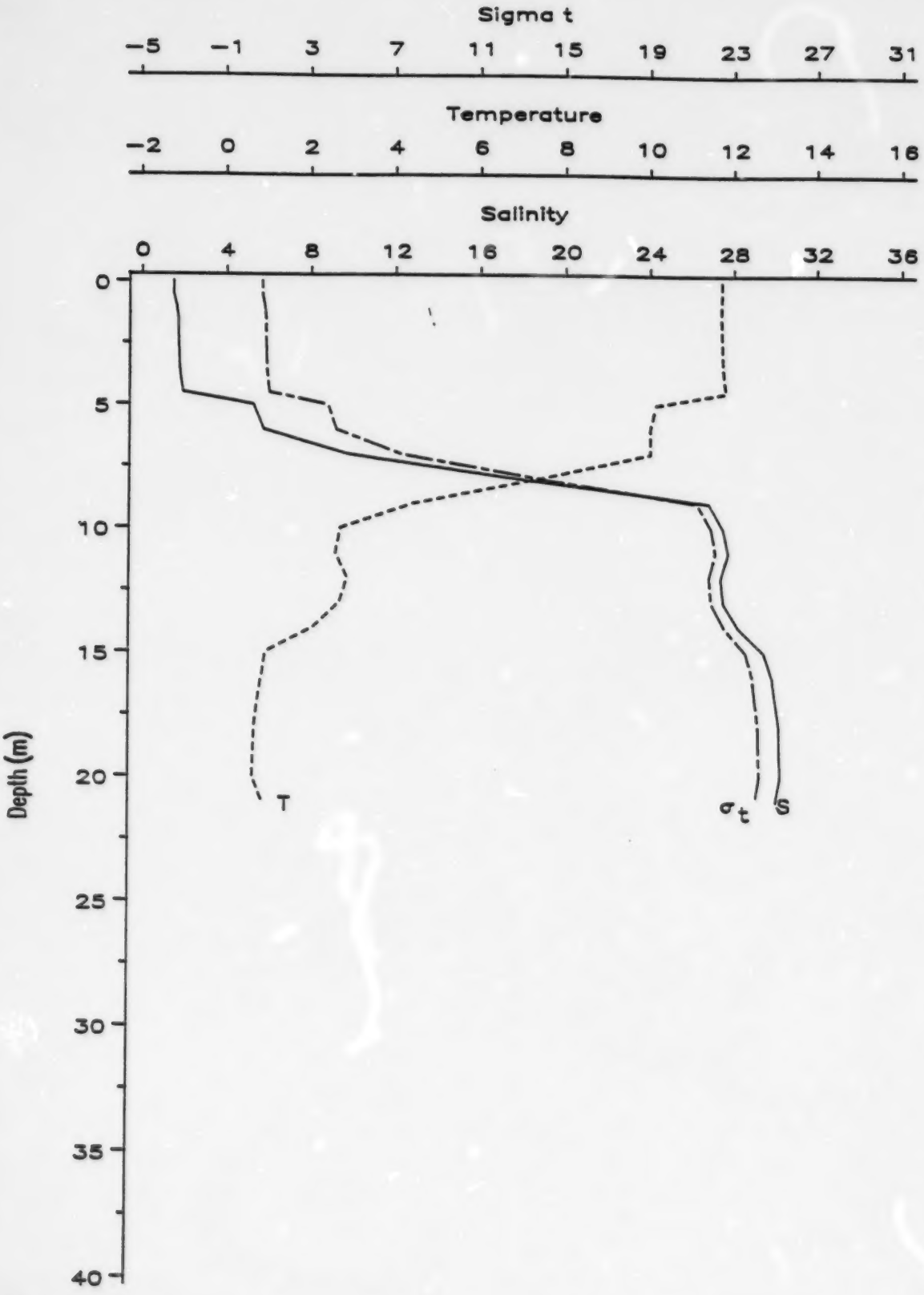

Table A3.17. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E01, August 11, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.48	11.71	1000.69	6.0	5.76	10.00	1004.20	15.0	29.47	0.94	1023.60
0.5	1.48	11.71	1000.69	7.0	9.73	10.01	1007.29	16.0	29.87	0.85	1023.93
1.0	1.62	11.70	1000.80	8.0	17.81	7.32	1013.88	17.0	30.03	0.75	1024.06
1.5	1.70	11.70	1000.86	9.0	26.83	4.39	1021.26	18.0	30.20	0.68	1024.20
2.0	1.70	11.71	1000.86	10.0	27.50	2.70	1021.93	19.0	30.23	0.66	1024.23
3.5	1.77	11.74	1000.91	11.0	27.75	2.58	1022.13	20.0	30.27	0.64	1024.26
4.0	1.84	11.77	1000.96	12.0	27.39	2.86	1021.83	21.0	30.05	0.87	1024.08
4.5	1.94	11.81	1001.03	13.0	27.51	2.68	1021.93				
5.0	5.27	10.14	1003.80	14.0	28.25	2.06	1022.57				

Table A3.18. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E02, August 11, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	3.11			5.0	4.07			15.0	29.64		
1.0	3.19			7.0	9.87			20.0	30.29		
3.0	3.49			10.0	28.21						

Table A3.19. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82B00, August 17, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	4.94			3.0	11.53						
1.0	5.47			4.5	18.02						

Table A3.20. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E00, August 17, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	7.40			5.0	13.71			15.0	29.36		
1.0	7.83			7.0	16.20			20.5	30.59		
3.0	9.48			10.0	26.94						

Table A3.21. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82B00, August 23, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.51										

Table A3.22. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 82E00, August 23, 1982.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	3.94			7.0	13.72			20.5	30.26		
3.0	4.00			10.0	24.93						
5.0	7.41			15.0	28.97						

Table A4.1. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 83T19, August 25, 1983.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
3.5	22.40	10.00	1017.13								

Table A4.2. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 83TB5, August 25, 1983.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
26.0	28.35	6.00	1022.30								

STATION: 83TB9 DATE: 25 August 1983

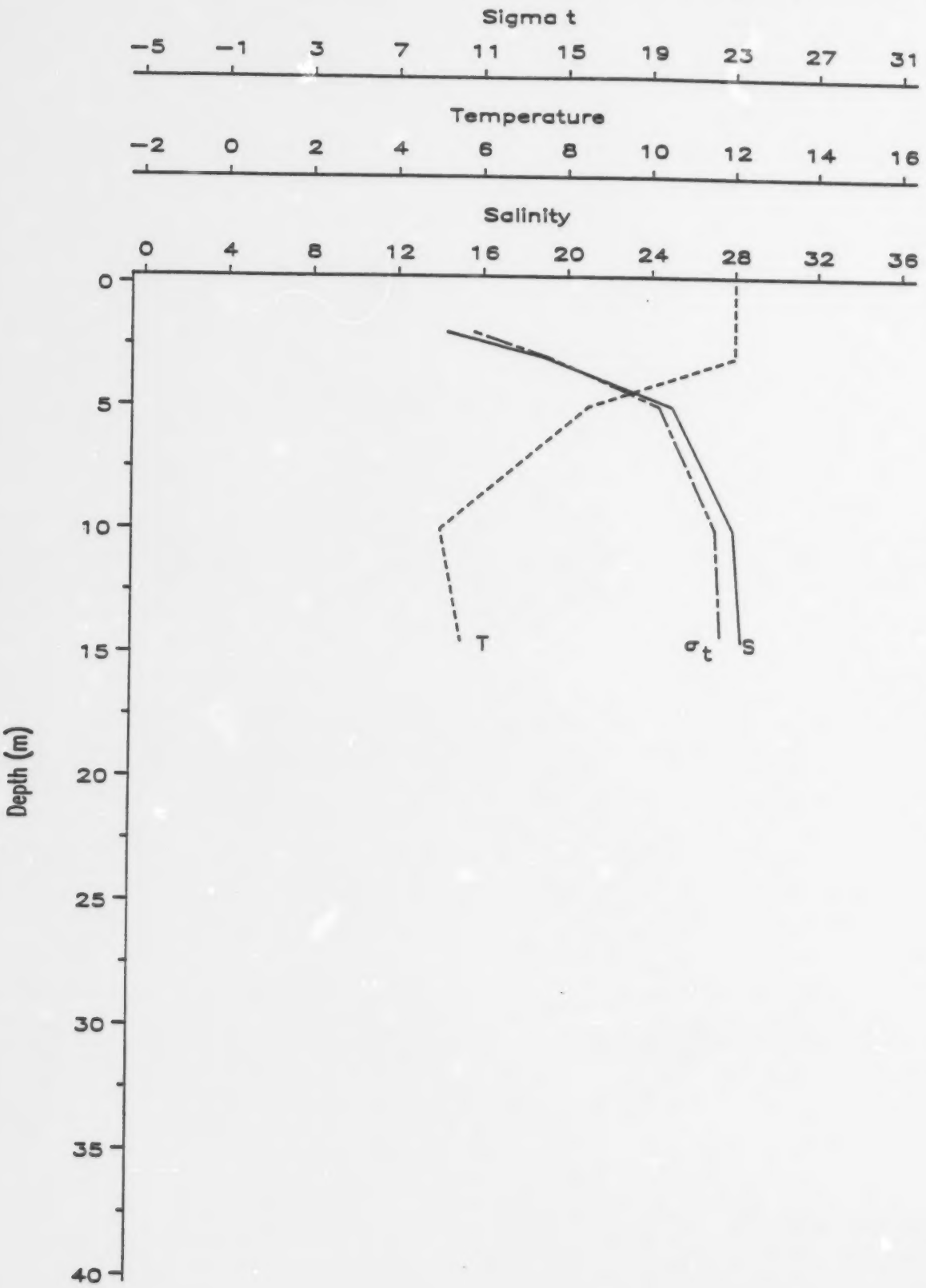

Table A4.3. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 83TB9, August 25, 1983.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0		12.00		3.0	18.87	12.00	1014.10	10.0	27.94	5.00	1022.08
2.0	14.34	12.00	1010.60	5.0	25.00	8.50	1019.37	14.5	28.35	5.50	1022.36

Table A4.4. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 83THN, August 25, 1983.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0		12.00		4.0		7.50		10.0		7.00	
2.0		11.00		5.0		7.00		15.0		6.00	
3.0		9.50		8.0		7.00		18.5		6.00	

STATION: 84THN DATE: 9 July 1984

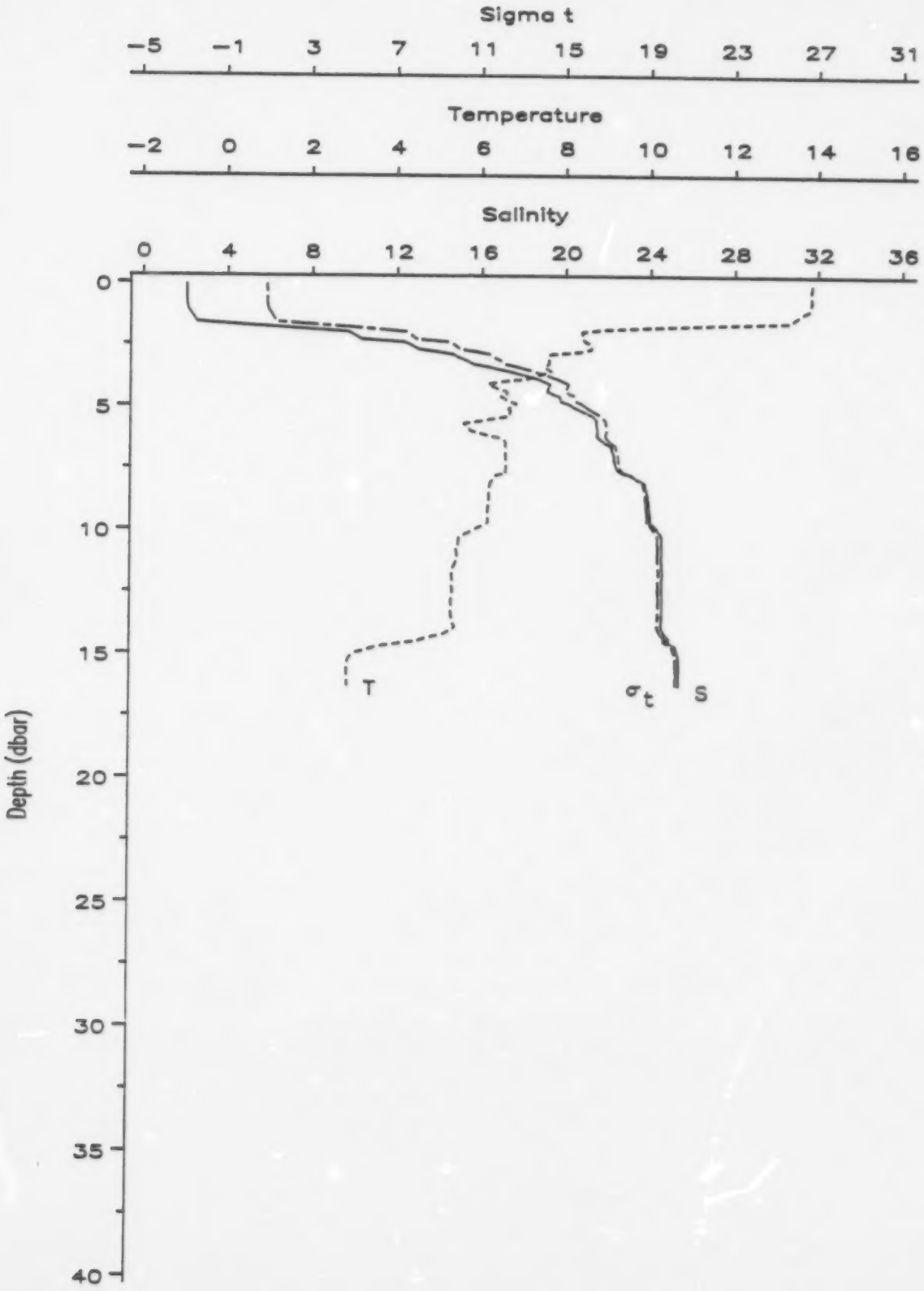

Table A5.1. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 84THN, July 9, 1984.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	2.06	13.85	1000.86	5.6	21.46	5.98	1016.88	11.0	24.54	5.43	1019.36
0.2	2.06	13.84	1000.86	5.7	21.43	5.58	1016.89	11.2	24.54	5.43	1019.36
0.3	2.06	13.83	1000.87	6.0	21.51	5.75	1016.94	11.3	24.55	5.40	1019.37
0.5	2.06	13.83	1000.87	6.1	21.49	5.97	1016.90	11.4	24.56	5.37	1019.38
0.7	2.07	13.84	1000.87	6.2	21.46	6.18	1016.86	11.5	24.56	5.34	1019.38
0.8	2.06	13.84	1000.86	6.3	21.59	6.51	1016.93	11.8	24.59	5.31	1019.41
0.9	2.08	13.81	1000.88	6.5	21.89	6.57	1017.16	12.0	24.56	5.32	1019.38
1.1	2.13	13.79	1000.93	6.6	22.14	6.56	1017.35	12.1	24.56	5.31	1019.38
1.2	2.22	13.66	1001.01	6.7	22.17	6.59	1017.37	12.3	24.57	5.31	1019.39
1.6	2.54	13.31	1001.31	6.9	22.24	6.57	1017.43	12.4	24.55	5.33	1019.37
1.7	4.32	11.49	1002.92	7.0	22.29	6.57	1017.47	12.5	24.56	5.32	1019.38
1.9	8.05	8.90	1006.10	7.2	22.30	6.58	1017.48	12.8	24.58	5.30	1019.40
2.0	9.70	8.37	1007.44	7.5	22.41	6.58	1017.56	12.9	24.57	5.29	1019.39
2.3	10.33	8.41	1007.92	7.6	22.49	6.57	1017.63	13.1	24.57	5.30	1019.39
2.4	12.30	8.47	1009.46	7.7	22.70	6.57	1017.79	13.3	24.57	5.29	1019.39
2.5	12.58	8.62	1009.66	7.8	23.08	6.34	1018.12	13.4	24.56	5.29	1019.38
2.7	13.02	8.60	1010.00	8.0	23.47	6.25	1018.43	13.5	24.56	5.30	1019.38
2.8	13.97	8.32	1010.78	8.1	23.74	6.20	1018.65	13.6	24.55	5.31	1019.37
2.9	14.64	7.64	1011.37	8.3	23.78	6.18	1018.68	13.8	24.54	5.34	1019.36
3.0	14.86	7.57	1011.55	8.4	23.84	6.17	1018.73	13.9	24.52	5.38	1019.34
3.1	15.16	7.60	1011.78	8.6	23.88	6.17	1018.76	14.0	24.56	5.34	1019.38
3.3	15.62	7.60	1012.14	8.7	23.90	6.17	1018.78	14.2	24.69	5.13	1019.50
3.4	16.29	7.49	1012.67	8.8	23.90	6.17	1018.78	14.4	24.90	4.65	1019.71
3.6	17.39	7.66	1013.52	8.9	23.94	6.17	1018.81	14.5	24.80	4.50	1019.64
3.9	18.70	7.07	1014.60	9.1	23.95	6.15	1018.82	14.7	25.20	3.61	1020.03
4.0	18.96	6.49	1014.86	9.3	23.98	6.14	1018.84	15.0	25.30	3.01	1020.15
4.1	19.25	6.14	1015.12	9.5	24.01	6.14	1018.87	15.1	25.34	2.93	1020.19
4.3	19.15	6.40	1015.02	9.7	23.98	6.16	1018.84	15.2	25.35	2.89	1020.20
4.4	19.12	6.60	1014.98	9.8	24.14	6.03	1018.98	15.3	25.36	2.86	1020.21
4.5	19.38	6.60	1015.18	9.9	24.26	5.95	1019.08	15.5	25.36	2.85	1020.21
4.6	19.70	6.45	1015.45	10.2	24.50	5.59	1019.31	15.6	25.37	2.84	1020.22
4.8	19.78	6.65	1015.49	10.3	24.55	5.47	1019.36	15.7	25.37	2.84	1020.22
4.9	20.11	6.83	1015.73	10.6	24.54	5.45	1019.35	15.9	25.37	2.84	1020.22
5.1	20.52	6.64	1016.07	10.7	24.55	5.41	1019.37	16.0	25.36	2.84	1020.21
5.2	20.77	6.68	1016.27	10.8	24.55	5.41	1019.37	16.1	25.36	2.85	1020.21
5.4	21.28	6.65	1016.67	10.9	24.55	5.41	1019.37	16.3	25.36	2.85	1020.21

STATION: 84THN DATE: 26 July 1984

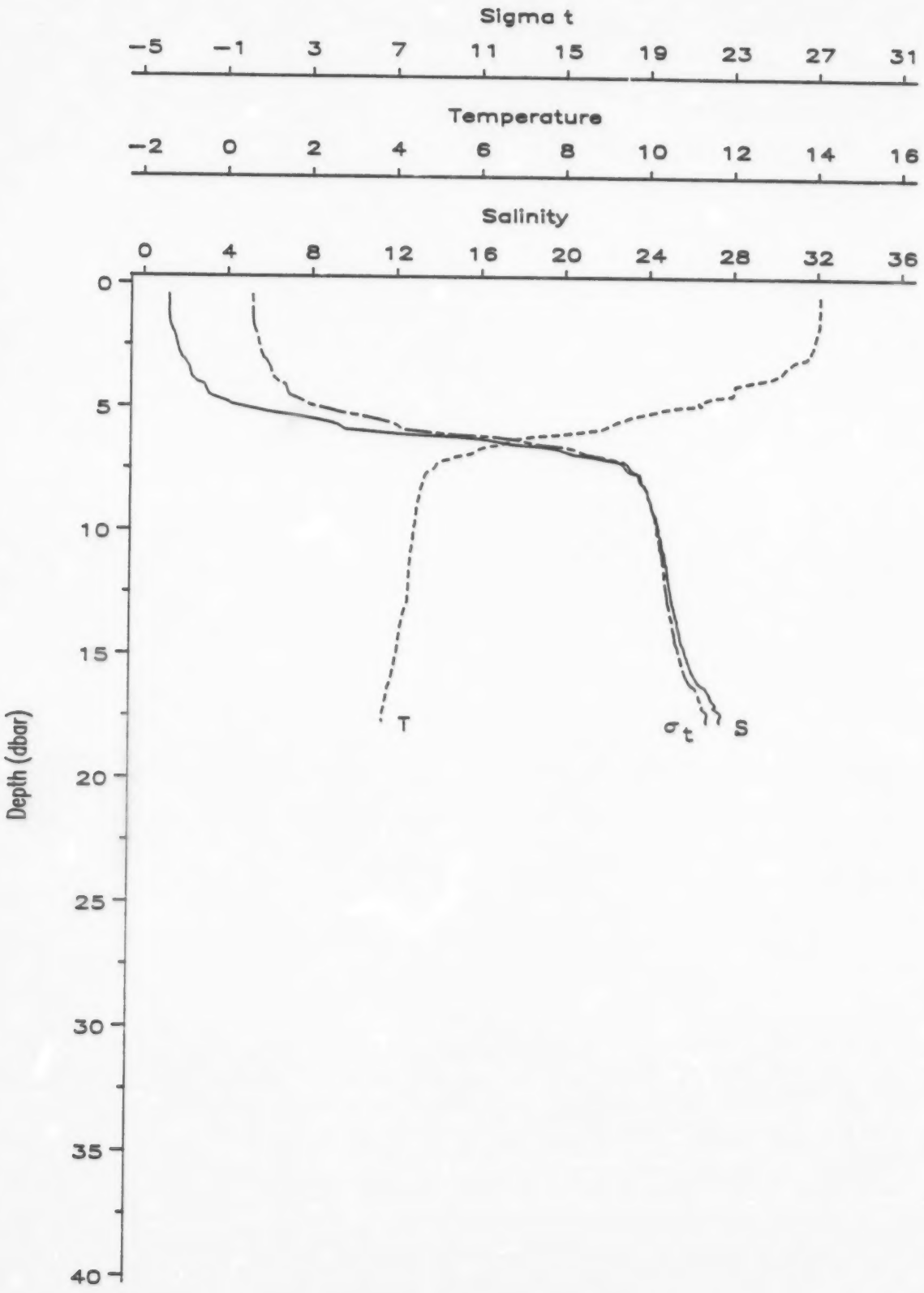

Table A5.2. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 84THN, July 26, 1984.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.5	1.20	14.06	1000.17	6.3	16.18	6.81	1012.65	12.0	24.93	4.30	1019.76
0.7	1.21	14.06	1000.18	6.5	17.47	6.51	1013.69	12.3	24.98	4.30	1019.80
0.8	1.22	14.05	1000.19	6.6	18.97	6.16	1014.90	12.5	25.04	4.29	1019.85
0.9	1.21	14.06	1000.18	6.7	19.69	5.97	1015.48	12.6	25.05	4.28	1019.86
1.1	1.21	14.06	1000.18	6.9	20.39	5.77	1016.05	12.8	25.09	4.28	1019.89
1.2	1.21	14.05	1000.18	7.0	21.25	5.45	1016.76	12.9	25.10	4.27	1019.90
1.3	1.22	14.05	1000.19	7.1	21.85	5.28	1017.25	13.0	25.15	4.24	1019.94
1.4	1.23	14.05	1000.19	7.2	22.58	5.05	1017.84	13.1	25.19	4.23	1019.97
1.6	1.26	14.05	1000.22	7.3	22.75	4.97	1017.98	13.3	25.24	4.18	1020.02
1.7	1.29	14.04	1000.24	7.5	22.94	4.89	1018.14	13.4	25.26	4.17	1020.03
1.8	1.33	14.02	1000.27	7.6	23.08	4.77	1018.26	13.5	25.30	4.16	1020.07
1.9	1.38	14.01	1000.32	7.7	23.48	4.70	1018.58	13.6	25.35	4.15	1020.11
2.0	1.45	13.99	1000.37	7.8	23.50	4.67	1018.60	13.8	25.37	4.12	1020.13
2.2	1.54	13.95	1000.45	8.0	23.58	4.66	1018.66	13.9	25.40	4.11	1020.15
2.4	1.58	13.92	1000.48	8.1	23.69	4.63	1018.75	14.0	25.43	4.11	1020.17
2.5	1.61	13.91	1000.51	8.3	23.86	4.58	1018.89	14.1	25.47	4.09	1020.21
2.7	1.68	13.85	1000.57	8.4	23.93	4.56	1018.95	14.4	25.52	4.07	1020.25
2.8	1.72	13.84	1000.60	8.6	23.96	4.55	1018.97	14.5	25.55	4.07	1020.27
2.9	1.78	13.79	1000.66	8.7	24.01	4.54	1019.01	14.6	25.62	4.05	1020.33
3.0	1.82	13.73	1000.69	8.8	24.08	4.52	1019.07	14.7	25.68	4.05	1020.38
3.1	1.96	13.47	1000.84	8.9	24.11	4.51	1019.10	15.0	25.76	4.02	1020.44
3.4	2.18	13.24	1001.04	9.1	24.15	4.49	1019.13	15.1	25.84	4.00	1020.51
3.6	2.24	13.14	1001.10	9.3	24.25	4.48	1019.21	15.2	25.85	3.99	1020.52
3.8	2.31	12.91	1001.18	9.4	24.34	4.47	1019.28	15.3	25.91	3.98	1020.57
4.0	2.56	12.30	1001.46	9.7	24.39	4.45	1019.32	15.5	25.98	3.97	1020.62
4.1	2.90	12.04	1001.75	9.8	24.40	4.43	1019.33	15.6	26.04	3.95	1020.67
4.3	2.98	12.02	1001.82	9.9	24.47	4.43	1019.39	15.7	26.09	3.93	1020.71
4.4	3.05	12.01	1001.87	10.1	24.44	4.41	1019.37	16.0	26.29	3.90	1020.87
4.5	3.10	11.97	1001.92	10.2	24.51	4.40	1019.42	16.1	26.37	3.88	1020.94
4.6	3.33	11.49	1002.15	10.3	24.57	4.40	1019.47	16.2	26.51	3.86	1021.05
4.8	4.01	11.17	1002.72	10.4	24.59	4.39	1019.49	16.3	26.73	3.83	1021.23
4.9	4.21	11.25	1002.86	10.6	24.63	4.38	1019.52	16.5	26.86	3.81	1021.33
5.0	4.75	10.61	1003.35	10.7	24.63	4.37	1019.52	16.6	26.93	3.80	1021.39
5.1	5.37	10.32	1003.87	10.8	24.70	4.36	1019.58	16.7	26.96	3.79	1021.41
5.2	5.90	10.09	1004.30	10.9	24.75	4.34	1019.62	16.8	27.02	3.78	1021.46
5.4	7.50	9.56	1005.60	11.0	24.75	4.35	1019.62	17.0	27.23	3.74	1021.63
5.5	8.21	9.43	1006.17	11.3	24.80	4.33	1019.66	17.1	27.10	3.75	1021.53
5.6	8.77	9.24	1006.63	11.4	24.85	4.32	1019.70	17.2	27.27	3.73	1021.67
5.7	9.21	9.11	1006.98	11.5	24.85	4.31	1019.70	17.3	27.45	3.71	1021.81
5.9	9.59	8.86	1007.30	11.7	24.89	4.31	1019.73	17.4	27.48	3.70	1021.83
6.1	12.40	7.85	1009.59	11.8	24.89	4.31	1019.73	17.6	27.36	3.69	1021.74
6.2	14.85	7.21	1011.57	11.9	24.90	4.30	1019.74	17.7	27.41	3.70	1021.78

STATION: 84THS DATE: 26 July 1984

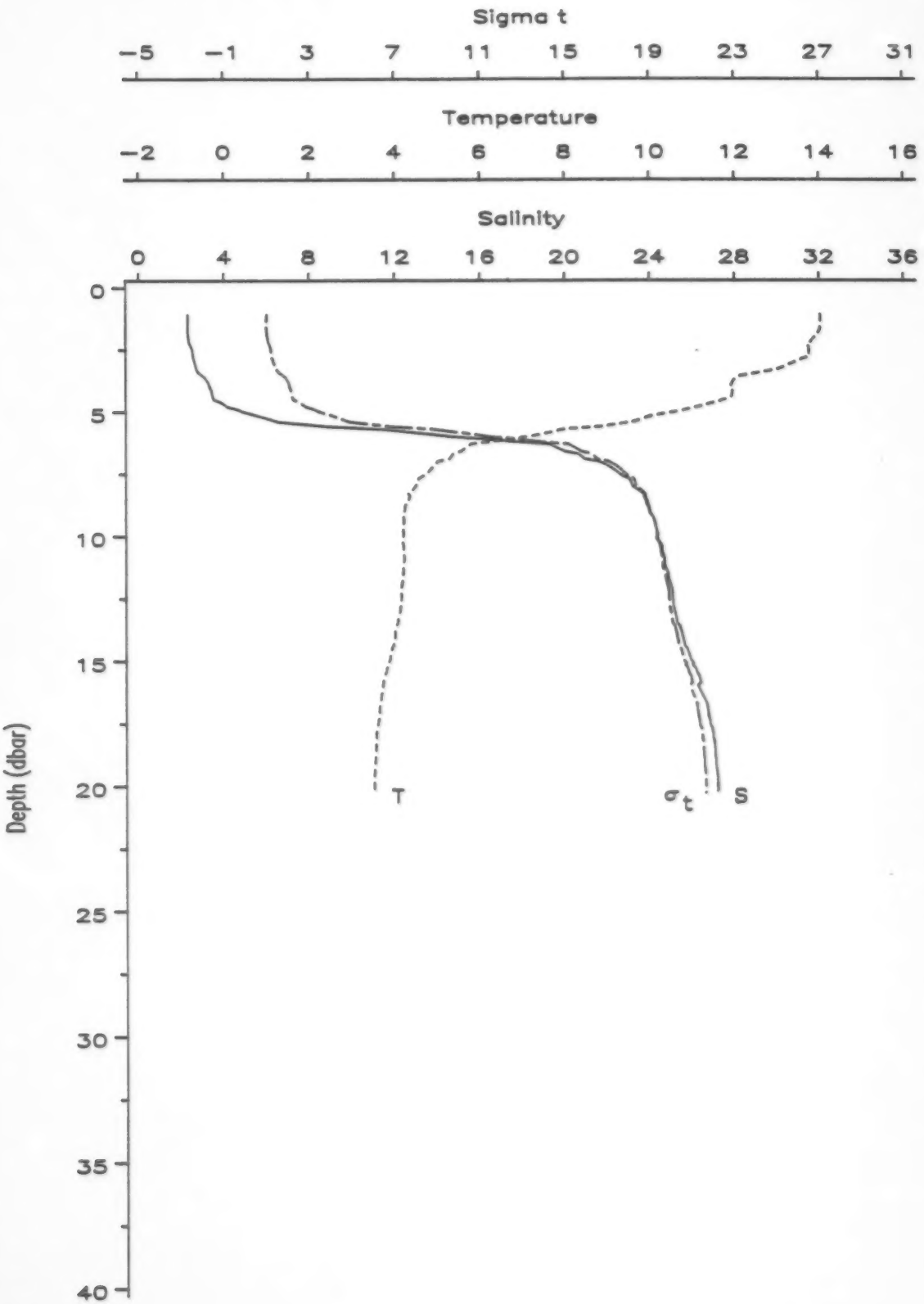

Table A5.3. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 84THS, July 26, 1984.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.1	2.31	14.03	1001.03	7.3	22.27	4.87	1017.61	13.9	25.47	4.00	1020.21
1.2	2.31	14.03	1001.03	7.5	22.59	4.75	1017.87	14.0	25.49	4.00	1020.23
1.3	2.30	14.03	1001.02	7.6	22.73	4.66	1017.99	14.1	25.52	4.00	1020.25
1.4	2.30	14.04	1001.02	7.7	23.03	4.56	1018.24	14.2	25.55	3.99	1020.28
1.6	2.30	14.03	1001.02	8.0	23.18	4.50	1018.36	14.4	25.59	3.97	1020.31
1.7	2.30	14.02	1001.02	8.2	23.51	4.40	1018.63	14.5	25.70	3.93	1020.40
1.8	2.31	13.99	1001.04	8.3	23.69	4.32	1018.78	14.7	25.78	3.91	1020.47
1.9	2.32	13.96	1001.05	8.4	23.70	4.36	1018.78	14.9	25.86	3.89	1020.53
2.0	2.35	13.90	1001.08	8.6	23.81	4.32	1018.87	15.0	25.90	3.88	1020.57
2.2	2.37	13.80	1001.11	8.7	23.82	4.27	1018.89	15.1	26.01	3.83	1020.66
2.3	2.43	13.71	1001.17	8.8	23.90	4.25	1018.95	15.2	25.97	3.85	1020.62
2.4	2.49	13.76	1001.21	9.1	23.99	4.22	1019.02	15.3	26.10	3.81	1020.73
2.5	2.53	13.76	1001.24	9.2	24.12	4.21	1019.13	15.5	26.18	3.79	1020.79
2.7	2.55	13.76	1001.25	9.3	24.18	4.21	1019.18	15.6	26.27	3.75	1020.87
2.8	2.56	13.75	1001.26	9.4	24.21	4.22	1019.20	15.9	26.36	3.73	1020.94
2.9	2.60	13.58	1001.32	9.5	24.25	4.21	1019.23	16.0	26.20	3.72	1020.82
3.1	2.66	13.30	1001.40	9.7	24.28	4.20	1019.26	16.7	26.62	3.66	1021.15
3.3	2.73	13.02	1001.50	9.9	24.36	4.20	1019.32	16.8	26.64	3.65	1021.17
3.4	2.81	12.71	1001.60	10.1	24.31	4.20	1019.28	17.0	26.68	3.64	1021.20
3.6	3.10	12.05	1001.91	10.2	24.40	4.20	1019.35	17.1	26.70	3.64	1021.22
3.8	3.27	11.96	1002.05	10.3	24.50	4.19	1019.43	17.2	26.71	3.63	1021.23
3.9	3.30	11.93	1002.08	10.4	24.53	4.20	1019.45	17.3	26.74	3.63	1021.25
4.0	3.34	11.91	1002.11	10.7	24.59	4.21	1019.50	17.4	26.77	3.62	1021.28
4.1	3.41	11.96	1002.16	10.8	24.63	4.22	1019.53	17.6	26.80	3.60	1021.30
4.4	3.48	11.93	1002.22	10.9	24.66	4.22	1019.55	17.7	26.88	3.59	1021.37
4.5	3.54	11.79	1002.28	11.2	24.69	4.20	1019.58	17.8	26.89	3.58	1021.38
4.6	3.85	11.61	1002.54	11.3	24.72	4.20	1019.60	17.9	26.92	3.57	1021.40
4.8	4.21	11.17	1002.87	11.4	24.78	4.20	1019.65	18.1	26.93	3.57	1021.41
4.9	4.68	10.91	1003.27	11.5	24.83	4.19	1019.69	18.2	26.97	3.56	1021.44
5.0	4.94	10.64	1003.50	11.7	24.85	4.19	1019.71	18.3	26.98	3.56	1021.45
5.1	5.38	10.29	1003.88	11.8	24.90	4.18	1019.75	18.4	26.98	3.56	1021.45
5.2	5.80	10.00	1004.24	11.9	24.92	4.17	1019.77	18.5	27.01	3.56	1021.47
5.4	6.56	9.66	1004.86	12.0	24.96	4.16	1019.80	18.8	27.02	3.55	1021.48
5.6	8.94	8.88	1006.79	12.1	25.00	4.15	1019.83	18.9	27.04	3.55	1021.50
5.7	11.33	7.99	1008.74	12.3	25.03	4.15	1019.85	19.1	27.05	3.54	1021.51
5.9	13.67	7.46	1010.62	12.4	25.03	4.15	1019.85	19.2	27.06	3.54	1021.51
6.0	14.68	7.17	1011.44	12.6	25.05	4.15	1019.87	19.3	27.08	3.53	1021.53
6.1	16.34	6.68	1012.79	12.8	25.06	4.14	1019.88	19.4	27.09	3.53	1021.54
6.2	17.56	6.28	1013.78	12.9	25.09	4.13	1019.90	19.6	27.12	3.52	1021.56
6.3	19.26	5.80	1015.16	13.0	25.11	4.12	1019.92	19.7	27.13	3.52	1021.57
6.6	20.03	5.56	1015.79	13.1	25.15	4.11	1019.95	19.8	27.13	3.52	1021.57
6.7	20.64	5.38	1016.28	13.3	25.20	4.08	1019.99	19.9	27.13	3.52	1021.57
6.9	20.92	5.29	1016.51	13.5	25.24	4.07	1020.03	20.0	27.14	3.52	1021.58
7.0	21.60	5.03	1017.07	13.6	25.35	4.04	1020.12	20.2	27.15	3.52	1021.59
7.2	22.11	4.91	1017.48	13.8	25.43	4.01	1020.18	20.3	27.13	3.52	1021.57

STATION: 84THN DATE: 10 September 1984

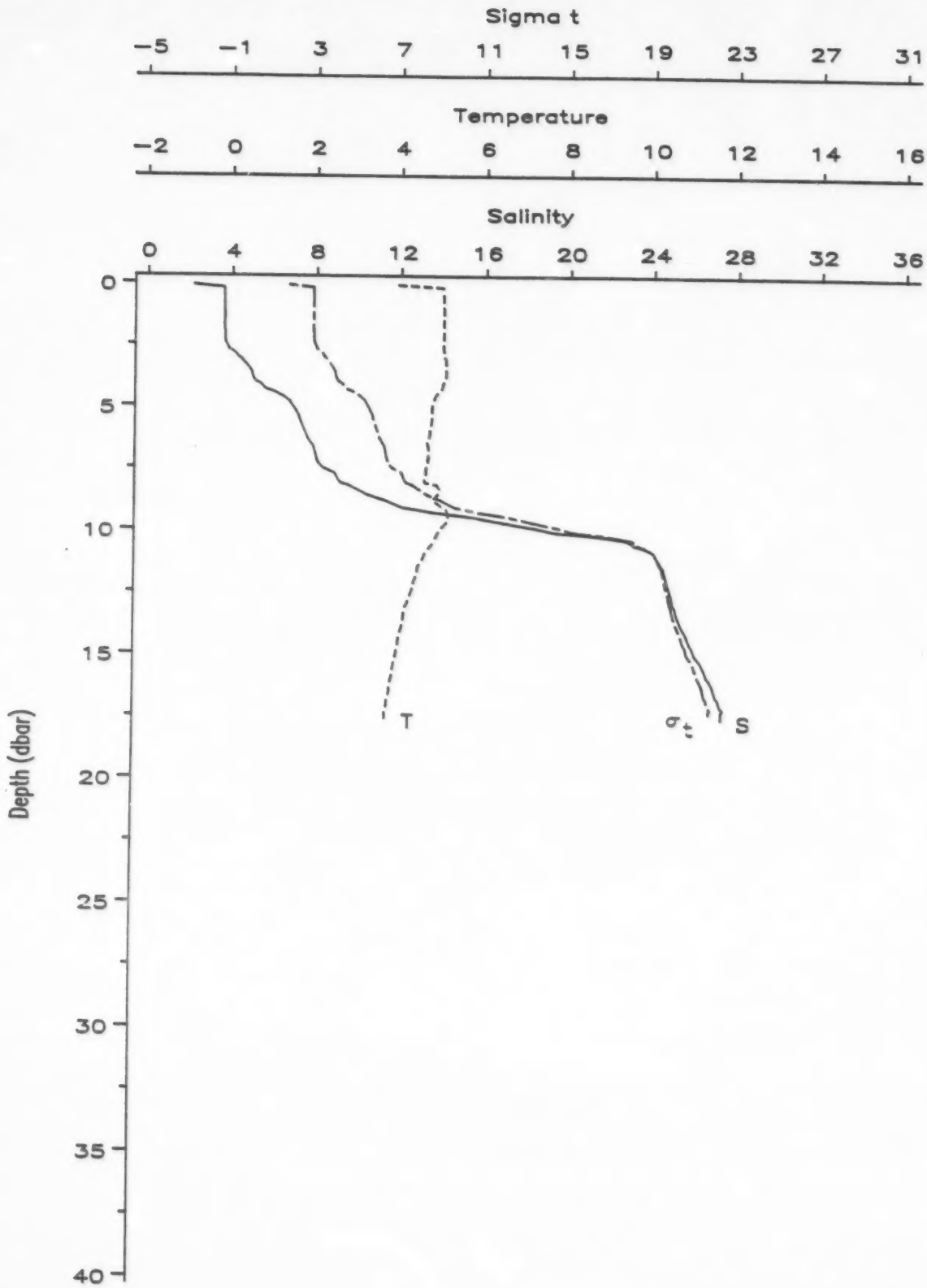

Table A5.4. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 84THN, September 10, 1984.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	2.17	3.94	1001.72	5.4	7.18	4.74	1005.69	11.7	24.51	4.41	1019.42
0.2	3.61	5.00	1002.85	5.5	7.20	4.74	1005.70	11.9	24.57	4.38	1019.47
0.3	3.60	5.01	1002.84	6.3	7.60	4.67	1006.02	12.0	24.61	4.36	1019.50
0.4	3.60	5.00	1002.84	6.5	7.76	4.63	1006.15	12.1	24.63	4.33	1019.52
0.5	3.61	5.00	1002.85	6.6	7.87	4.65	1006.24	12.3	24.69	4.32	1019.57
0.8	3.61	5.00	1002.85	6.9	7.96	4.66	1006.31	12.4	24.75	4.29	1019.62
0.9	3.61	5.01	1002.85	7.1	8.02	4.66	1006.35	12.6	24.82	4.25	1019.68
1.1	3.61	5.01	1002.85	7.2	8.06	4.64	1006.39	12.8	24.86	4.21	1019.71
1.2	3.62	5.01	1002.85	7.3	8.12	4.65	1006.43	13.0	24.91	4.17	1019.76
1.3	3.62	5.01	1002.85	7.5	8.34	4.62	1006.61	13.1	25.00	4.13	1019.83
1.4	3.62	5.00	1002.85	7.6	8.62	4.60	1006.83	13.3	25.04	4.11	1019.86
1.6	3.62	5.01	1002.85	7.7	8.89	4.60	1007.05	13.5	25.12	4.09	1019.93
1.7	3.61	5.00	1002.85	7.8	8.96	4.60	1007.10	13.6	25.18	4.08	1019.98
1.8	3.62	5.01	1002.85	8.0	9.07	4.56	1007.19	13.8	25.27	4.07	1020.05
1.9	3.62	5.01	1002.85	8.1	9.19	4.58	1007.28	14.0	25.41	4.04	1020.16
2.0	3.64	5.01	1002.87	8.2	9.57	4.86	1007.57	14.2	25.54	4.00	1020.27
2.2	3.65	5.01	1002.88	8.4	10.02	4.94	1007.93	14.5	25.68	3.97	1020.38
2.4	3.67	5.01	1002.89	8.6	10.47	4.88	1008.28	14.6	25.73	3.97	1020.42
2.7	3.85	5.00	1003.04	8.8	11.22	4.76	1008.88	14.7	25.83	3.95	1020.50
2.8	4.07	5.02	1003.21	9.1	12.10	5.00	1009.57	15.0	25.94	3.93	1020.59
2.9	4.20	5.02	1003.31	9.2	12.84	5.09	1010.15	15.1	26.05	3.91	1020.68
3.0	4.28	5.02	1003.38	9.3	13.51	5.11	1010.67	15.3	26.24	3.88	1020.84
3.1	4.45	5.06	1003.51	9.4	14.60	5.13	1011.53	15.6	26.41	3.85	1020.97
3.4	4.76	5.07	1003.76	9.5	15.46	5.13	1012.21	15.9	26.55	3.83	1021.09
3.5	4.85	5.07	1003.83	9.7	16.78	5.10	1013.26	16.0	26.66	3.81	1021.17
3.6	4.94	5.07	1003.90	9.9	18.19	4.99	1014.38	16.1	26.72	3.80	1021.22
3.8	4.99	5.07	1003.94	10.1	19.39	4.91	1015.33	16.2	26.79	3.78	1021.28
3.9	5.04	5.04	1003.98	10.2	20.99	4.87	1016.60	16.3	26.84	3.78	1021.32
4.0	5.14	5.05	1004.06	10.3	21.88	4.85	1017.30	16.5	26.91	3.77	1021.38
4.1	5.38	5.00	1004.25	10.4	22.75	4.79	1018.00	16.7	26.98	3.75	1021.43
4.3	5.60	4.97	1004.43	10.6	23.09	4.76	1018.27	16.8	27.09	3.73	1021.52
4.4	5.94	4.92	1004.70	10.7	23.57	4.70	1018.65	17.1	27.20	3.71	1021.61
4.6	6.43	4.82	1005.09	10.9	24.01	4.60	1019.01	17.2	27.33	3.69	1021.72
4.8	6.74	4.77	1005.34	11.2	24.21	4.53	1019.17	17.3	27.25	3.69	1021.65
4.9	6.81	4.75	1005.39	11.3	24.27	4.50	1019.22	17.4	27.24	3.67	1021.65
5.1	6.98	4.74	1005.53	11.4	24.36	4.46	1019.30	17.6	27.23	3.67	1021.64
5.2	7.05	4.74	1005.58	11.5	24.45	4.42	1019.37				

STATION: 84THS DATE: 10 September 1984

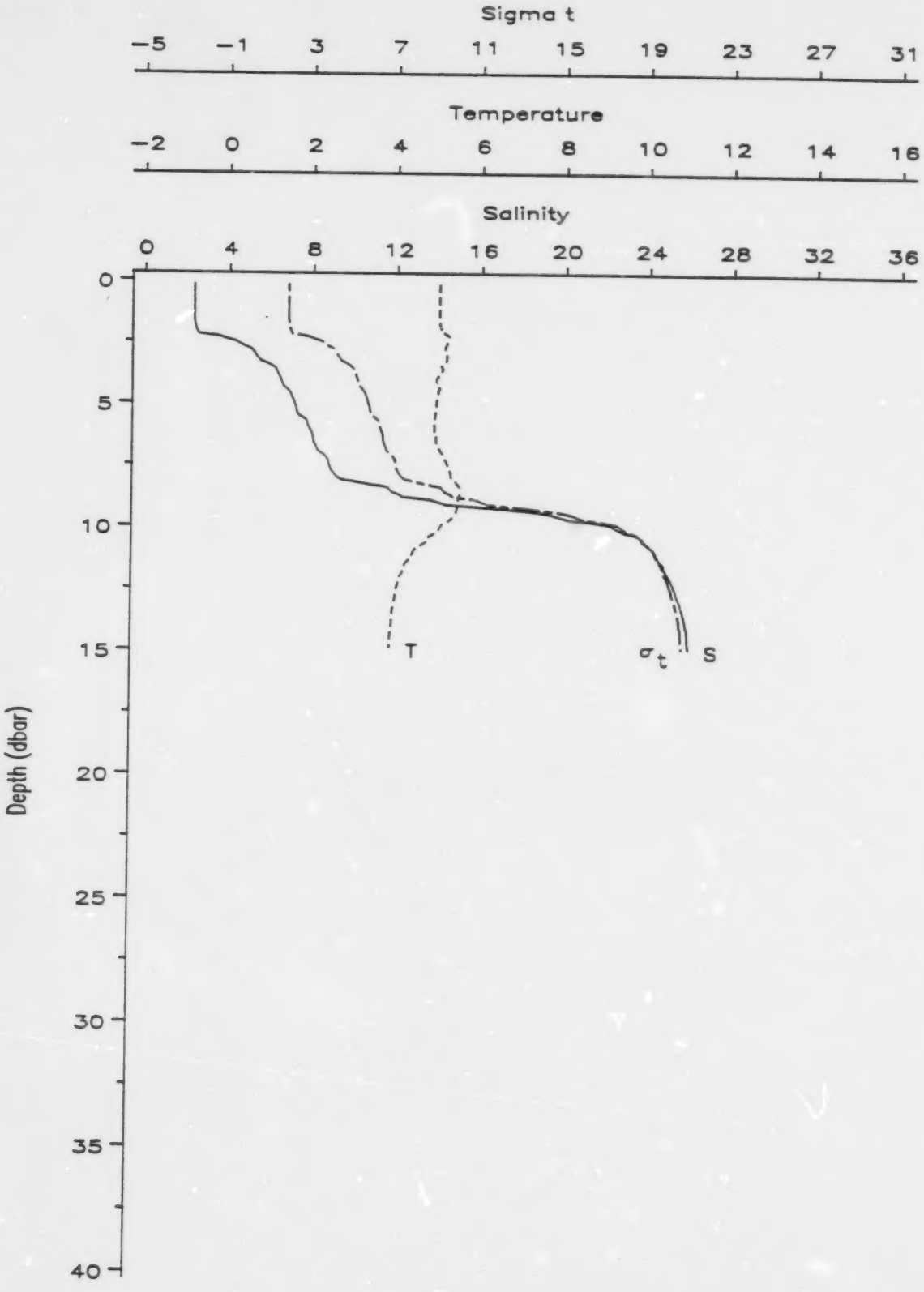

Table A5.5. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 84THS, September 10, 1984.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	2.31	5.01	1001.81	5.1	7.17	4.94	1005.67	9.9	22.07	5.09	1017.44
0.3	2.31	5.01	1001.81	5.4	7.25	4.92	1005.74	10.2	22.77	4.97	1018.00
0.4	2.31	5.00	1001.81	5.5	7.34	4.91	1005.81	10.3	23.34	4.87	1018.46
0.5	2.31	5.00	1001.81	5.6	7.55	4.90	1005.97	10.4	23.54	4.78	1018.62
0.7	2.31	5.00	1001.81	5.7	7.70	4.89	1006.09	10.6	23.69	4.72	1018.75
0.8	2.31	5.00	1001.81	5.9	7.75	4.89	1006.13	10.7	23.89	4.63	1018.91
0.9	2.31	5.00	1001.81	6.0	7.83	4.90	1006.20	10.8	24.03	4.54	1019.03
1.1	2.31	5.00	1001.81	6.1	7.89	4.89	1006.24	10.9	24.20	4.44	1019.17
1.2	2.31	5.00	1001.81	6.2	7.95	4.89	1006.29	11.0	24.26	4.40	1019.22
1.3	2.31	5.00	1001.81	6.3	7.99	4.93	1006.32	11.2	24.37	4.35	1019.31
1.4	2.31	5.00	1001.81	6.5	8.02	4.94	1006.34	11.3	24.43	4.32	1019.36
1.6	2.31	5.00	1001.81	6.6	8.04	4.94	1006.36	11.4	24.55	4.25	1019.47
1.7	2.33	5.00	1001.83	6.7	8.12	4.97	1006.42	11.5	24.67	4.20	1019.56
1.8	2.34	5.01	1001.84	6.9	8.21	5.02	1006.49	11.7	24.72	4.17	1019.61
1.9	2.38	5.03	1001.87	7.0	8.35	5.06	1006.60	11.9	24.84	4.13	1019.70
2.0	2.40	5.04	1001.88	7.1	8.54	5.12	1006.75	12.0	24.95	4.08	1019.80
2.2	2.52	5.16	1001.98	7.2	8.65	5.12	1006.83	12.1	24.99	4.07	1019.83
2.3	3.49	5.25	1002.74	7.3	8.73	5.15	1006.90	12.3	25.11	4.04	1019.93
2.4	3.86	5.23	1003.04	7.5	8.78	5.21	1006.93	12.4	25.14	4.02	1019.95
2.5	4.30	5.20	1003.39	7.7	8.87	5.25	1007.00	12.5	25.22	4.00	1020.02
2.7	4.73	5.15	1003.73	7.8	8.96	5.28	1007.07	12.6	25.25	4.00	1020.04
2.8	5.04	5.14	1003.98	8.0	9.16	5.29	1007.23	12.8	25.31	3.98	1020.09
2.9	5.16	5.16	1004.07	8.1	9.38	5.34	1007.40	12.9	25.36	3.97	1020.13
3.1	5.31	5.18	1004.19	8.2	10.12	5.41	1007.98	13.0	25.43	3.96	1020.19
3.3	5.53	5.17	1004.36	8.3	10.78	5.45	1008.50	13.1	25.47	3.94	1020.22
3.4	5.86	5.07	1004.63	8.4	11.53	5.50	1009.09	13.3	25.53	3.93	1020.27
3.5	6.08	5.05	1004.80	8.6	11.78	5.50	1009.29	13.4	25.59	3.91	1020.32
3.6	6.23	5.09	1004.92	8.7	12.14	5.50	1009.57	13.5	25.59	3.91	1020.32
3.8	6.34	5.03	1005.01	8.8	12.26	5.49	1009.67	13.6	25.64	3.90	1020.36
4.0	6.45	4.94	1005.10	8.9	13.61	5.46	1010.73	13.8	25.70	3.90	1020.41
4.3	6.58	4.96	1005.20	9.1	14.34	5.48	1011.31	14.0	25.73	3.89	1020.43
4.4	6.72	5.02	1005.31	9.2	15.96	5.44	1012.59	14.1	25.79	3.88	1020.48
4.5	6.84	4.98	1005.41	9.3	17.38	5.43	1013.71	14.2	25.79	3.87	1020.48
4.6	6.93	4.98	1005.48	9.4	18.69	5.42	1014.74	14.4	25.81	3.87	1020.49
4.8	7.02	4.96	1005.55	9.5	19.35	5.36	1015.27	14.5	25.83	3.86	1020.51
4.9	7.08	4.95	1005.60	9.7	20.16	5.30	1015.91	14.6	25.82	3.86	1020.50
5.0	7.11	4.94	1005.62	9.8	21.35	5.20	1016.86	14.9	25.87	3.85	1020.54

STATION: 85T01 DATE: 16 March 1985

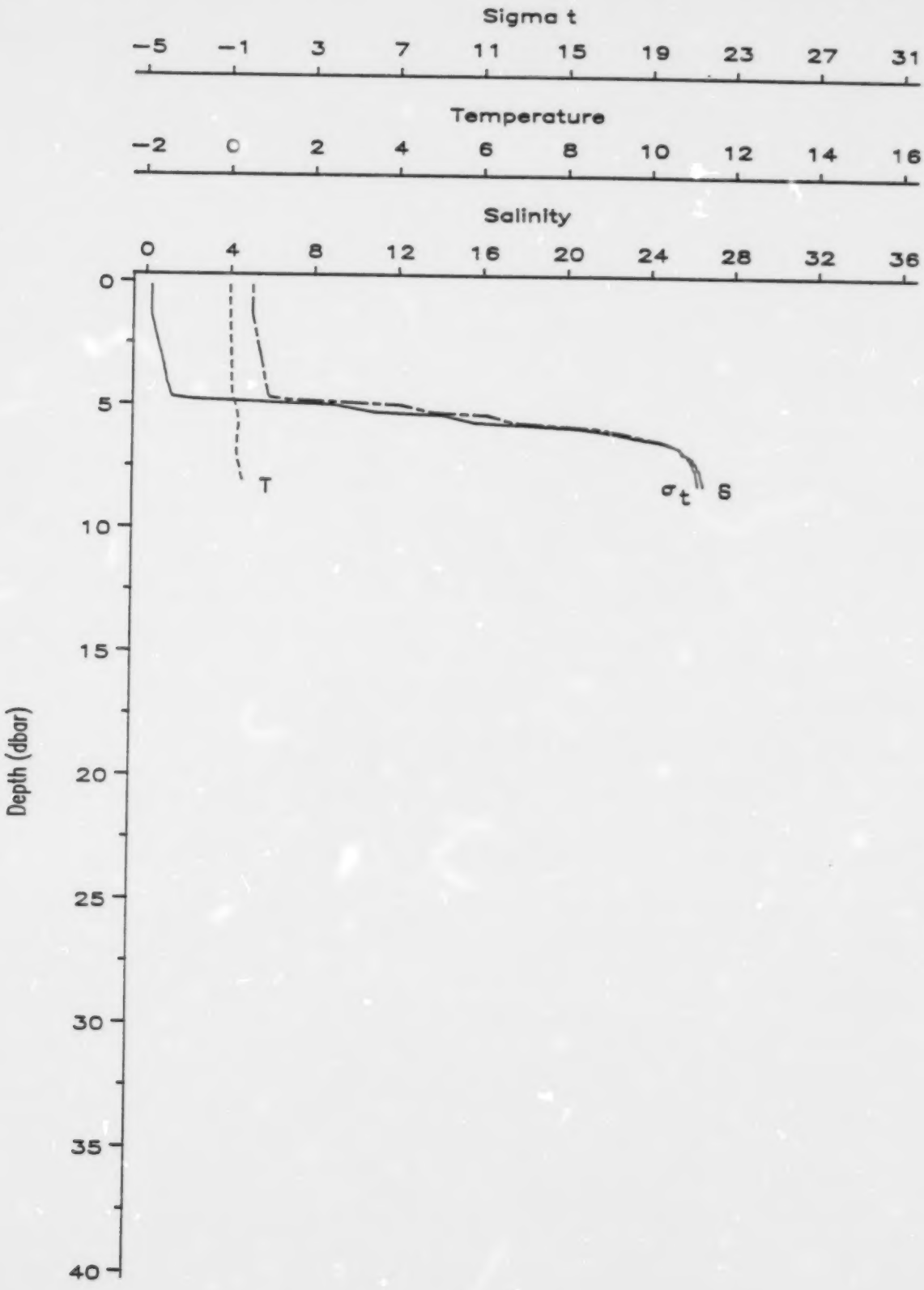

Table A6.1. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85T01, March 16, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	0.25	-0.02	1000.05	3.7	0.92	0.03	1000.60	6.4	24.22	0.17	1019.41
0.5	0.25	-0.02	1000.05	3.8	0.96	0.03	1000.63	6.5	24.70	0.17	1019.80
0.6	0.25	-0.02	1000.05	4.1	1.00	0.03	1000.66	6.7	25.38	0.17	1020.34
0.7	0.25	-0.02	1000.05	4.3	1.10	0.04	1000.75	6.9	25.56	0.16	1020.49
1.0	0.24	-0.02	1000.04	4.6	1.19	0.05	1000.82	7.0	25.79	0.17	1020.67
1.1	0.25	-0.02	1000.05	4.7	1.27	0.06	1000.89	7.1	25.98	0.17	1020.83
1.2	0.24	-0.01	1000.04	4.8	2.25	0.08	1001.69	7.3	26.15	0.19	1020.96
1.4	0.26	-0.01	1000.06	5.0	8.97	0.13	1007.13	7.5	26.25	0.23	1021.04
2.8	0.67	0.02	1000.39	5.3	10.93	0.17	1008.71	7.6	26.36	0.24	1021.13
2.9	0.72	0.02	1000.43	5.4	14.10	0.19	1011.26	7.8	26.38	0.26	1021.15
3.1	0.77	0.02	1000.48	5.7	15.66	0.20	1012.52	8.0	26.46	0.29	1021.21
3.3	0.81	0.03	1000.51	5.9	20.42	0.21	1016.35	8.1	26.49	0.31	1021.23
3.4	0.86	0.03	1000.55	6.1	22.16	0.18	1017.75	8.2	26.51	0.33	1021.25
3.6	0.89	0.03	1000.57	6.3	23.40	0.18	1018.75				

STATION: 85T03 DATE: 17 March 1985

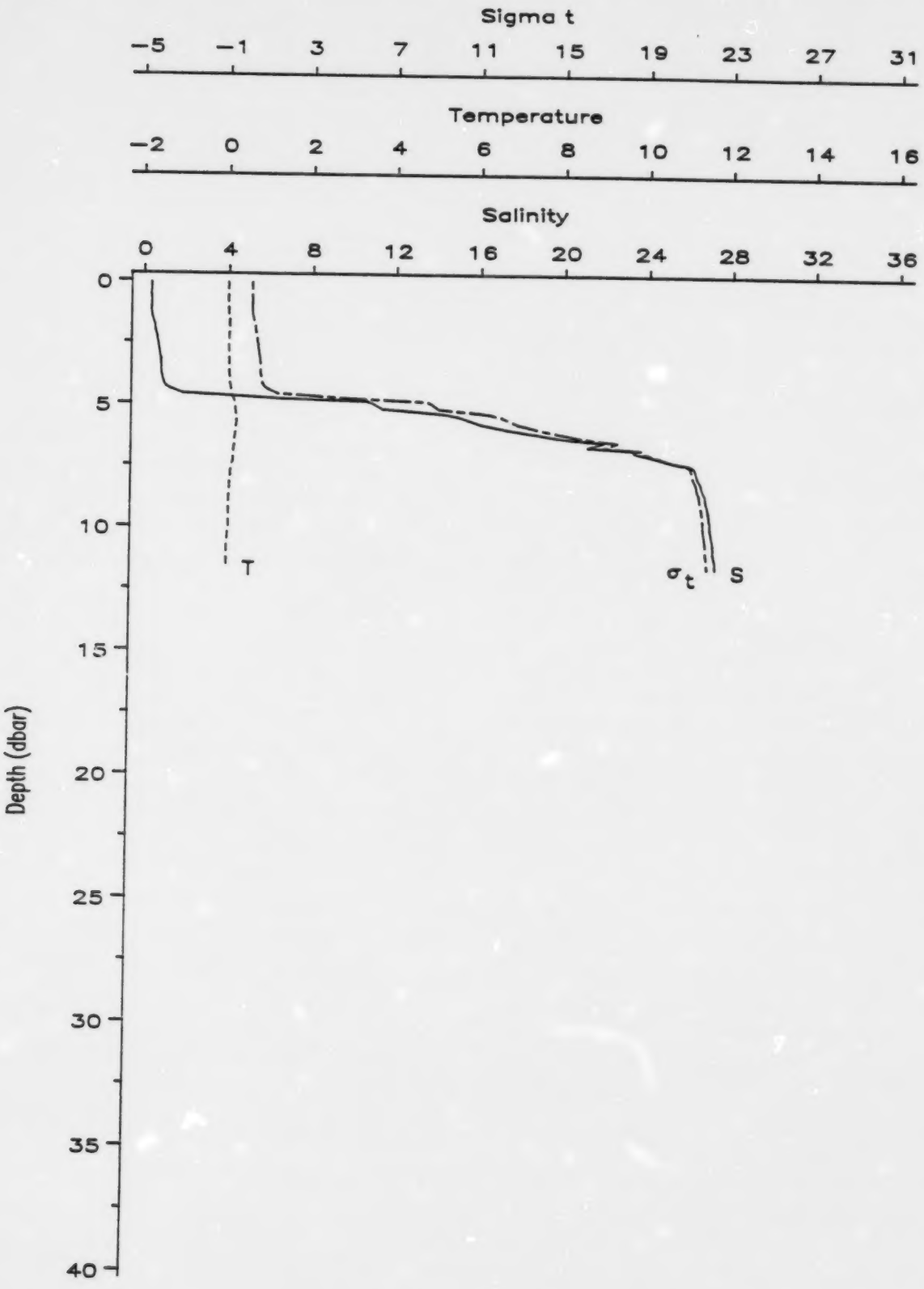

Table A6.2. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85T03, March 17, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	0.33	-0.02	1000.11	3.9	0.86	0.03	1000.55	7.6	26.21	0.07	1021.01
0.2	0.33	-0.01	1000.11	4.1	0.92	0.03	1000.60	7.8	26.29	0.06	1021.08
0.3	0.33	-0.02	1000.11	4.2	0.95	0.04	1000.62	7.9	26.32	0.06	1021.10
0.5	0.32	-0.02	1000.10	4.3	1.04	0.05	1000.70	8.0	26.38	0.05	1021.15
0.6	0.32	-0.02	1000.10	4.4	1.21	0.06	1000.84	8.1	26.46	0.06	1021.22
0.7	0.34	-0.02	1000.12	4.6	1.83	0.08	1001.34	8.2	26.51	0.04	1021.26
0.9	0.34	-0.02	1000.12	4.8	6.56	0.12	1005.18	8.4	26.57	0.04	1021.31
1.0	0.33	-0.02	1000.11	4.9	10.66	0.15	1008.49	8.5	26.62	0.03	1021.35
1.1	0.33	-0.02	1000.11	5.0	10.94	0.17	1008.72	8.6	26.70	0.03	1021.41
1.2	0.33	-0.01	1000.11	5.2	11.34	0.17	1009.04	8.9	26.75	0.02	1021.45
1.4	0.35	-0.01	1000.13	5.3	13.01	0.18	1010.39	9.0	26.78	0.02	1021.48
1.5	0.38	0.02	1000.16	5.4	14.37	0.19	1011.48	9.2	26.85	0.01	1021.53
1.7	0.45	0.02	1000.21	5.5	14.98	0.19	1011.97	9.3	26.87	0.02	1021.55
1.8	0.51	0.02	1000.26	5.7	15.67	0.20	1012.53	9.5	26.91	0.02	1021.58
2.0	0.52	0.02	1000.27	5.8	16.02	0.20	1012.81	9.6	26.91	0.02	1021.58
2.1	0.55	0.02	1000.30	5.9	16.64	0.19	1013.31	9.7	26.95	0.02	1021.61
2.2	0.58	0.01	1000.32	6.0	17.20	0.19	1013.76	10.0	26.96	0.02	1021.62
2.3	0.62	0.01	1000.35	6.3	19.49	0.17	1015.60	10.6	27.10	-0.02	1021.73
2.5	0.65	0.00	1000.38	6.4	20.46	0.15	1016.38	10.8	27.11	-0.02	1021.74
2.6	0.68	0.00	1000.40	6.5	21.85	0.15	1017.50	11.0	27.11	-0.02	1021.74
2.8	0.71	0.00	1000.42	6.7	21.07	0.15	1016.87	11.1	27.14	-0.02	1021.77
3.1	0.77	0.01	1000.47	6.8	23.28	0.13	1018.65	11.2	27.17	-0.02	1021.79
3.2	0.80	0.01	1000.50	6.9	23.29	0.13	1018.66	11.3	27.20	-0.02	1021.81
3.3	0.80	0.01	1000.50	7.1	24.26	0.12	1019.44	11.5	27.20	-0.02	1021.81
3.4	0.81	0.01	1000.51	7.3	25.12	0.12	1020.14	11.6	27.22	-0.02	1021.83
3.7	0.82	0.01	1000.52	7.4	25.95	0.10	1020.80				
3.8	0.83	0.02	1000.52	7.5	26.17	0.08	1020.98				

STATION: 85T04 DATE: 18 March 1985

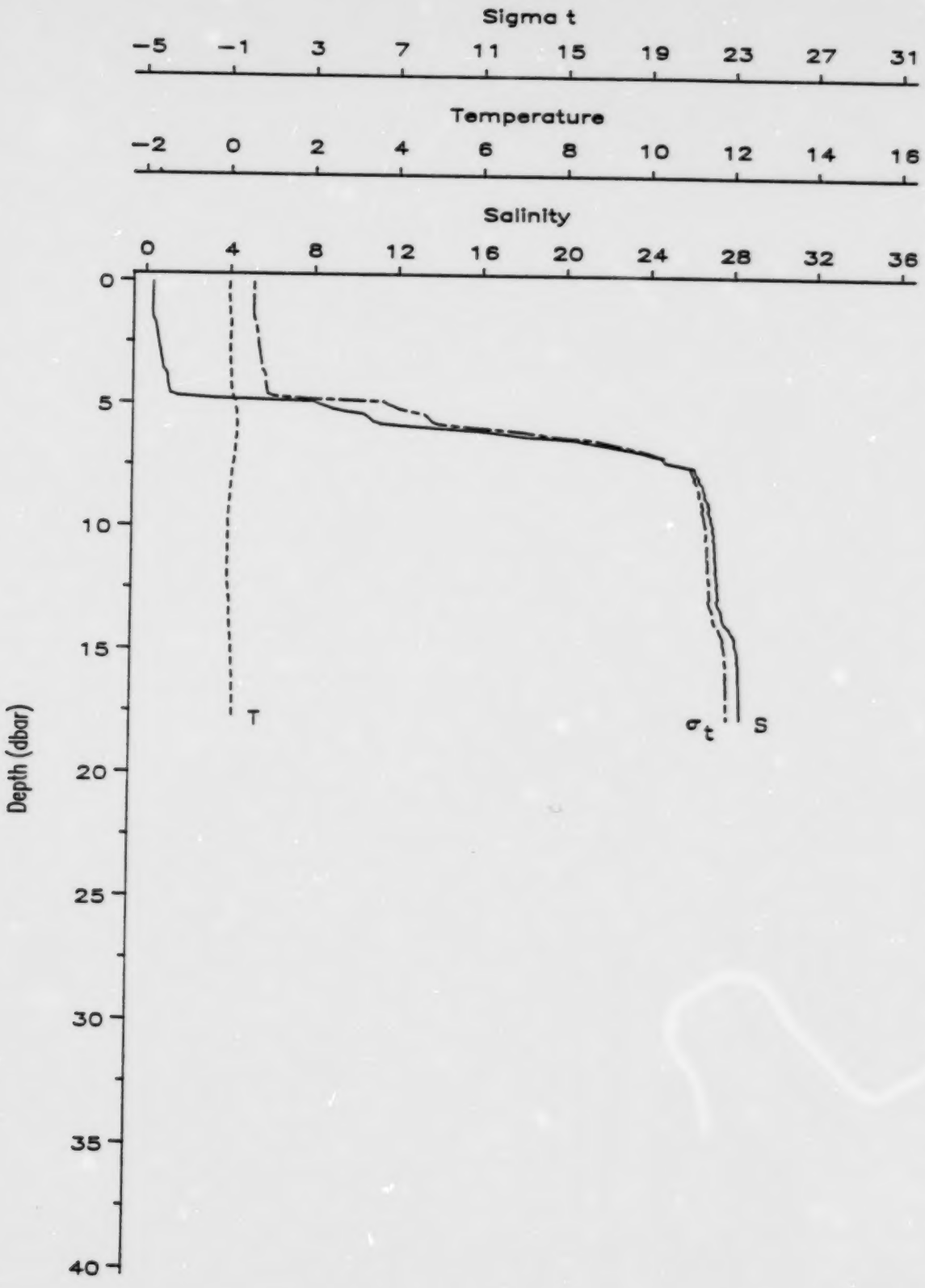

Table A6.3. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85T04, March 18, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	0.33	-0.02	1000.11	6.0	14.48	0.19	1011.57	12.1	27.25	-0.02	1021.86
0.2	0.33	-0.02	1000.11	6.1	16.16	0.18	1012.92	12.2	27.29	-0.02	1021.89
0.3	0.33	-0.03	1000.11	6.3	18.15	0.18	1014.52	12.3	27.23	-0.02	1021.84
0.5	0.32	-0.03	1000.10	6.4	20.28	0.16	1016.24	12.4	27.27	-0.01	1021.87
0.6	0.32	-0.03	1000.10	6.7	22.32	0.15	1017.88	12.6	27.30	0.00	1021.89
0.7	0.32	-0.03	1000.10	6.9	23.64	0.14	1018.94	12.7	27.30	0.01	1021.89
0.9	0.32	-0.02	1000.10	7.0	24.03	0.14	1019.26	12.8	27.34	0.01	1021.93
1.0	0.32	-0.02	1000.10	7.1	24.56	0.12	1019.68	12.9	27.23	0.02	1021.84
1.1	0.31	-0.02	1000.10	7.3	24.75	0.12	1019.84	13.1	27.32	0.03	1021.91
1.2	0.30	-0.01	1000.09	7.4	25.43	0.11	1020.39	13.2	27.40	0.03	1021.97
1.4	0.32	-0.01	1000.10	7.5	26.13	0.09	1020.95	13.3	27.47	0.03	1022.03
1.5	0.34	0.01	1000.12	7.6	26.12	0.08	1020.94	13.4	27.49	0.03	1022.05
1.6	0.37	0.02	1000.15	7.8	26.25	0.07	1021.05	13.6	27.52	0.03	1022.07
1.7	0.45	0.02	1000.21	7.9	26.37	0.06	1021.14	13.7	27.55	0.03	1022.10
1.8	0.48	0.02	1000.24	8.0	26.30	0.06	1021.09	13.8	27.60	0.03	1022.14
2.0	0.52	0.02	1000.27	8.2	26.54	0.05	1021.28	13.9	27.69	0.04	1022.21
2.1	0.53	0.01	1000.28	8.4	26.57	0.04	1021.31	14.0	27.85	0.04	1022.34
2.2	0.56	0.01	1000.30	8.5	26.64	0.03	1021.36	14.2	27.96	0.05	1022.43
2.3	0.58	0.01	1000.32	8.6	26.63	0.03	1021.35	14.3	28.05	0.06	1022.50
2.5	0.61	0.00	1000.34	8.7	26.64	0.03	1021.36	14.4	28.12	0.06	1022.55
2.6	0.63	0.00	1000.36	8.9	26.81	0.02	1021.50	14.5	28.14	0.07	1022.57
2.7	0.66	0.00	1000.38	9.0	26.80	0.01	1021.49	14.7	28.14	0.07	1022.57
2.8	0.68	0.00	1000.40	9.1	26.88	0.00	1021.56	14.8	28.19	0.08	1022.61
2.9	0.71	0.00	1000.42	9.2	26.82	0.00	1021.51	14.9	28.23	0.09	1022.64
3.1	0.74	0.00	1000.45	9.3	26.82	0.00	1021.51	15.0	28.25	0.09	1022.66
3.2	0.76	0.01	1000.47	9.5	26.95	-0.01	1021.61	15.1	28.27	0.09	1022.67
3.3	0.79	0.01	1000.49	9.6	26.93	-0.02	1021.60	15.3	28.28	0.10	1022.68
3.6	0.83	0.02	1000.52	9.7	26.97	-0.02	1021.63	15.4	28.28	0.10	1022.68
3.7	0.94	0.03	1000.61	9.9	27.05	-0.02	1021.69	15.5	28.31	0.10	1022.71
3.8	1.01	0.03	1000.67	10.0	27.01	-0.02	1021.66	15.8	28.32	0.10	1022.71
3.9	1.04	0.03	1000.70	10.1	27.05	-0.01	1021.69	15.9	28.33	0.11	1022.72
4.2	1.06	0.03	1000.71	10.2	27.10	-0.01	1021.73	16.0	28.33	0.11	1022.72
4.3	1.09	0.04	1000.74	10.4	27.05	-0.02	1021.69	16.1	28.32	0.12	1022.71
4.4	1.12	0.04	1000.76	10.5	27.13	-0.02	1021.76	16.3	28.35	0.12	1022.74
4.6	1.17	0.06	1000.80	10.6	27.12	-0.02	1021.75	16.4	28.35	0.12	1022.74
4.7	1.51	0.08	1001.08	10.7	27.14	-0.02	1021.77	16.5	28.36	0.12	1022.75
4.8	3.32	0.09	1002.56	10.8	27.13	-0.02	1021.76	16.6	28.36	0.12	1022.75
4.9	7.98	0.14	1006.33	11.0	27.16	-0.02	1021.78	16.8	28.36	0.12	1022.75
5.0	8.23	0.14	1006.53	11.1	27.13	-0.02	1021.76	16.9	28.37	0.13	1022.75
5.2	8.91	0.15	1007.08	11.2	27.16	-0.02	1021.78	17.0	28.37	0.13	1022.75
5.3	9.50	0.17	1007.56	11.3	27.18	-0.02	1021.80	17.1	28.37	0.13	1022.75
5.4	10.38	0.17	1008.27	11.5	27.20	-0.02	1021.81	17.2	28.38	0.13	1022.76
5.5	10.58	0.18	1008.43	11.6	27.20	-0.02	1021.81	17.4	28.38	0.13	1022.76
5.7	10.86	0.18	1008.65	11.7	27.18	-0.02	1021.80	17.5	28.39	0.13	1022.77
5.8	11.21	0.19	1008.94	11.8	27.20	-0.02	1021.81	17.6	28.40	0.13	1022.78
5.9	12.52	0.18	1009.99	11.9	27.23	-0.02	1021.84	17.7	28.40	0.13	1022.78

STATION: 85T06 DATE: 18 March 1985

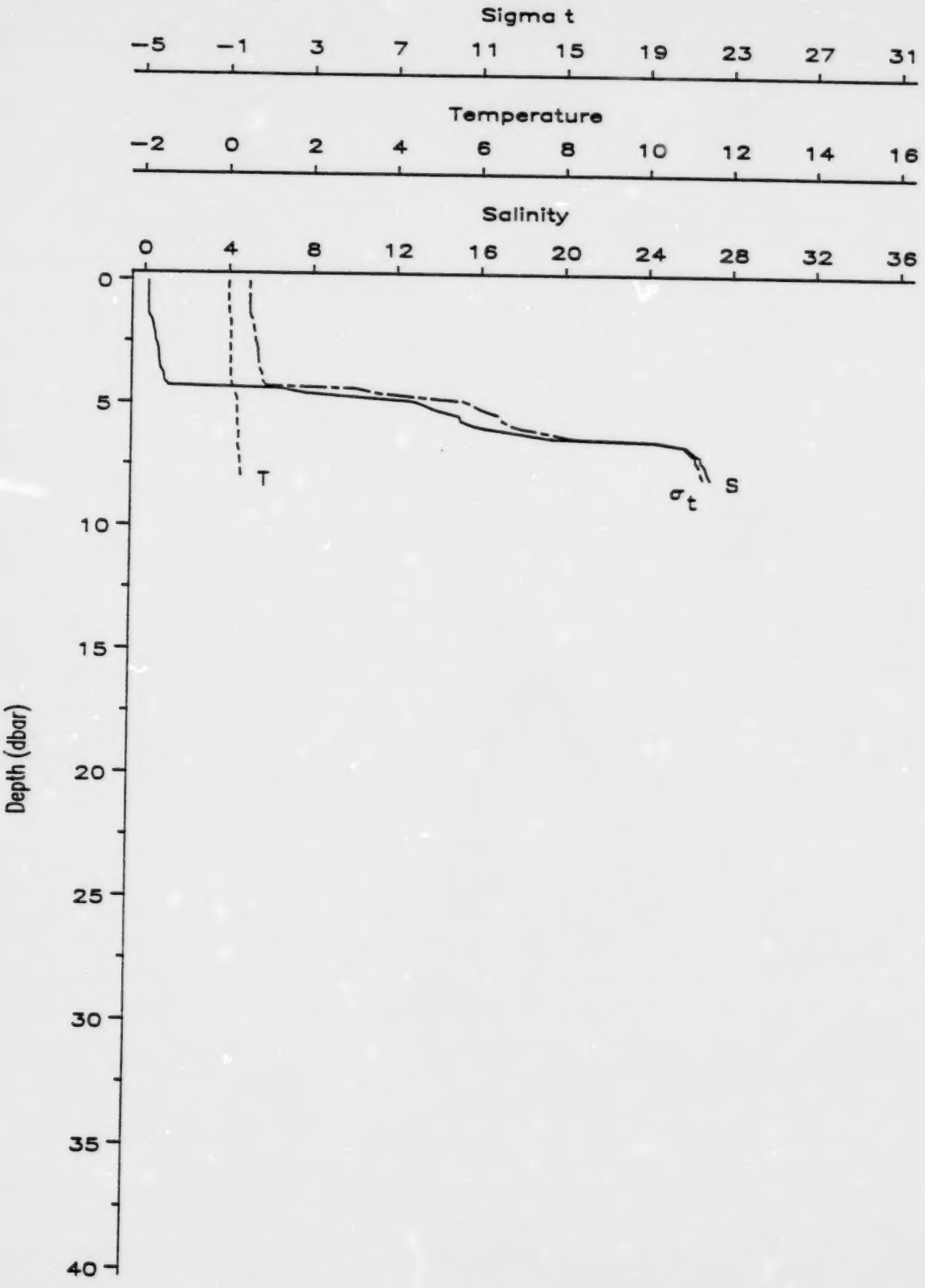

Table A6.4. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85T06, March 18, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	0.18	0.00	999.99	2.8	0.67	0.04	1000.39	5.5	14.99	0.22	1011.98
0.2	0.18	-0.01	999.99	2.9	0.68	0.04	1000.40	5.7	15.08	0.22	1012.05
0.3	0.17	-0.01	999.98	3.1	0.69	0.04	1000.41	5.8	15.36	0.22	1012.28
0.5	0.18	-0.02	999.99	3.3	0.71	0.05	1000.43	5.9	15.70	0.22	1012.55
0.6	0.18	-0.01	999.99	3.4	0.73	0.04	1000.44	6.0	16.22	0.24	1012.97
0.7	0.18	-0.01	999.99	3.6	0.76	0.04	1000.47	6.1	17.08	0.25	1013.66
0.9	0.18	-0.01	999.99	3.7	0.84	0.05	1000.53	6.4	19.43	0.25	1015.55
1.0	0.18	0.00	999.99	3.8	0.91	0.05	1000.59	6.5	24.27	0.25	1019.45
1.2	0.19	0.00	1000.00	3.9	0.93	0.05	1000.61	6.7	25.85	0.24	1020.72
1.4	0.20	0.01	1000.01	4.1	0.96	0.06	1000.63	6.8	25.95	0.24	1020.80
1.5	0.25	0.03	1000.05	4.2	1.04	0.07	1000.70	6.9	26.13	0.26	1020.94
1.6	0.33	0.04	1000.12	4.3	1.17	0.09	1000.81	7.0	26.27	0.27	1021.06
1.7	0.38	0.05	1000.16	4.4	6.45	0.14	1005.09	7.1	26.49	0.27	1021.23
1.8	0.41	0.05	1000.18	4.6	7.76	0.16	1006.15	7.3	26.50	0.28	1021.24
2.0	0.45	0.04	1000.21	4.8	11.01	0.20	1008.77	7.4	26.64	0.29	1021.35
2.1	0.48	0.04	1000.24	4.9	12.75	0.21	1010.18	7.5	26.71	0.29	1021.41
2.2	0.51	0.05	1000.26	5.0	13.16	0.21	1010.51	7.6	26.75	0.29	1021.44
2.5	0.54	0.05	1000.29	5.2	13.71	0.21	1010.95	7.8	26.82	0.30	1021.50
2.6	0.62	0.03	1000.35	5.3	14.08	0.21	1011.25	7.9	26.89	0.31	1021.56
2.7	0.63	0.04	1000.36	5.4	14.52	0.22	1011.60	8.0	26.95	0.32	1021.60

STATION: 85058 DATE: 27 March 1985

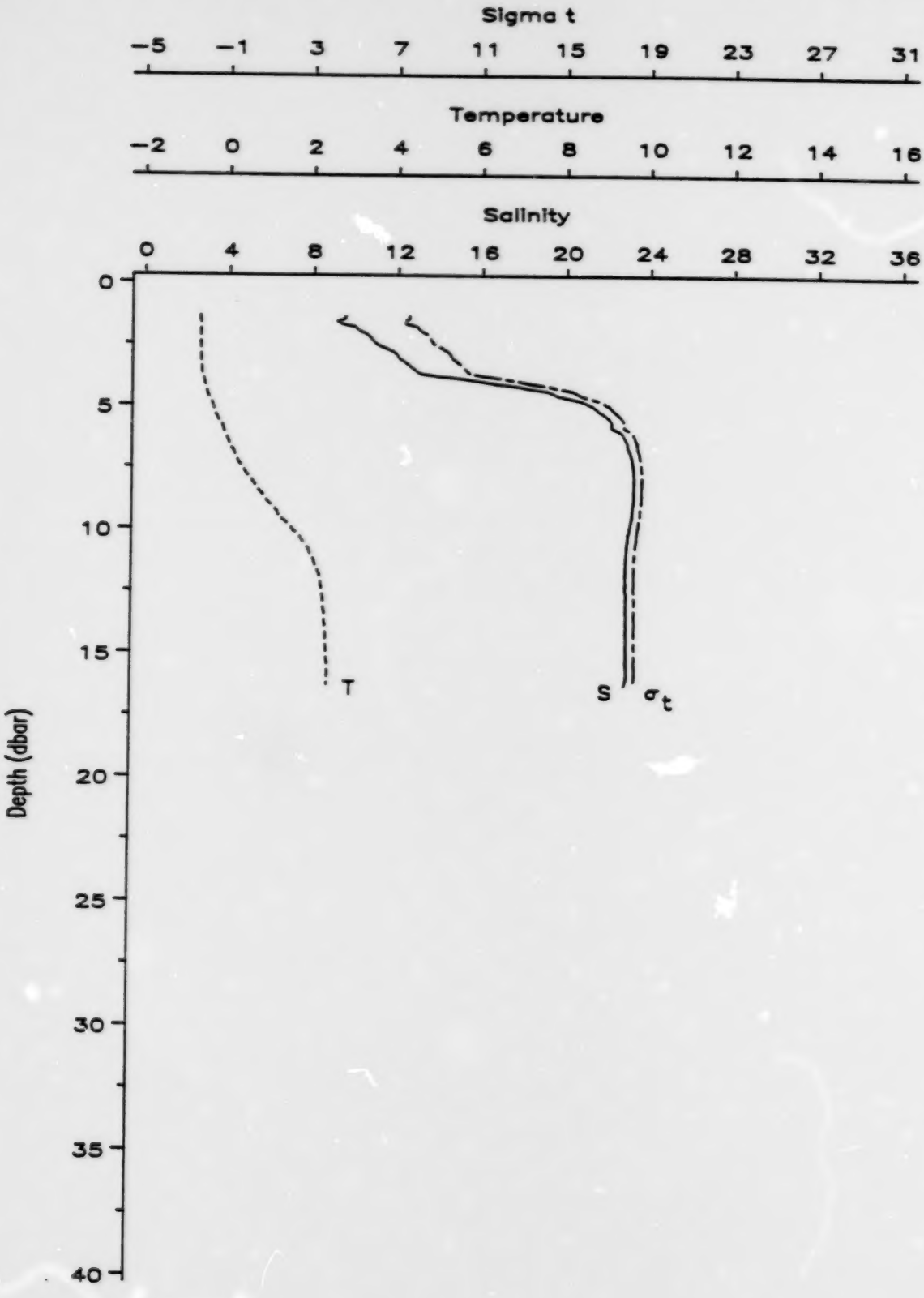

Table A6.5. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85058, March 27, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.4	9.51	-0.70	1007.53	6.3	22.80	-0.05	1018.27	11.3	22.85	2.03	1018.25
1.5	9.48	-0.70	1007.51	6.4	22.85	-0.03	1018.31	11.5	22.84	2.06	1018.24
1.6	9.13	-0.69	1007.23	6.5	22.92	0.00	1018.37	11.6	22.84	2.10	1018.24
1.7	9.36	-0.69	1007.41	6.7	22.94	0.03	1018.38	11.7	22.84	2.12	1018.24
1.8	9.92	-0.69	1007.87	6.8	23.00	0.09	1018.43	11.8	22.84	2.15	1018.24
2.0	10.25	-0.69	1008.13	6.9	23.05	0.12	1018.47	11.9	22.83	2.17	1018.23
2.1	10.52	-0.69	1008.35	7.0	23.08	0.15	1018.49	12.1	22.84	2.19	1018.23
2.2	10.65	-0.69	1008.46	7.1	23.12	0.18	1018.52	12.2	22.85	2.20	1018.24
2.3	10.76	-0.69	1008.55	7.3	23.16	0.22	1018.56	12.3	22.83	2.20	1018.23
2.5	10.97	-0.69	1008.71	7.4	23.18	0.27	1018.57	12.4	22.82	2.22	1018.22
2.6	11.22	-0.69	1008.92	7.5	23.19	0.32	1018.58	12.6	22.87	2.23	1018.26
2.7	11.49	-0.69	1009.14	7.6	23.22	0.36	1018.60	12.7	22.87	2.25	1018.26
2.8	11.75	-0.68	1009.35	7.8	23.23	0.42	1018.61	12.8	22.86	2.25	1018.25
2.9	11.90	-0.68	1009.47	7.9	23.24	0.48	1018.61	12.9	22.87	2.26	1018.26
3.1	12.08	-0.68	1009.61	8.0	23.24	0.54	1018.61	13.1	22.86	2.27	1018.25
3.2	12.28	-0.68	1009.78	8.1	23.23	0.57	1018.60	13.2	22.87	2.27	1018.25
3.3	12.45	-0.67	1009.91	8.2	23.24	0.62	1018.61	13.3	22.86	2.28	1018.25
3.4	12.59	-0.66	1010.03	8.4	23.23	0.68	1018.60	13.4	22.87	2.29	1018.25
3.6	12.90	-0.66	1010.28	8.5	23.23	0.74	1018.60	13.6	22.87	2.29	1018.25
3.7	13.06	-0.65	1010.41	8.6	23.23	0.80	1018.60	13.7	22.88	2.29	1018.26
3.8	13.85	-0.62	1011.05	8.7	23.22	0.85	1018.59	13.8	22.88	2.29	1018.26
3.9	15.04	-0.61	1012.01	8.9	23.21	0.92	1018.58	13.9	22.88	2.31	1018.26
4.1	16.64	-0.59	1013.30	9.0	23.19	0.98	1018.56	14.0	22.88	2.31	1018.26
4.2	17.63	-0.57	1014.10	9.1	23.17	1.06	1018.54	14.2	22.87	2.32	1018.25
4.3	18.27	-0.56	1014.62	9.2	23.16	1.10	1018.53	14.3	22.88	2.32	1018.26
4.4	19.10	-0.54	1015.29	9.3	23.15	1.15	1018.52	14.4	22.90	2.32	1018.28
4.6	19.64	-0.51	1015.72	9.5	23.13	1.19	1018.51	14.5	22.89	2.33	1018.27
4.7	20.22	-0.48	1016.19	9.6	23.11	1.26	1018.49	14.7	22.88	2.33	1018.26
4.8	20.73	-0.44	1016.60	9.7	23.07	1.34	1018.45	14.8	22.88	2.33	1018.26
4.9	20.99	-0.41	1016.81	9.9	23.04	1.45	1018.42	14.9	22.89	2.34	1018.27
5.0	21.25	-0.39	1017.02	10.1	23.00	1.54	1018.39	15.0	22.89	2.35	1018.27
5.2	21.53	-0.36	1017.25	10.2	22.95	1.64	1018.35	15.1	22.90	2.35	1018.27
5.3	21.73	-0.34	1017.41	10.4	22.94	1.71	1018.34	15.3	22.89	2.35	1018.27
5.4	21.89	-0.31	1017.54	10.5	22.93	1.75	1018.33	15.4	22.87	2.37	1018.25
5.5	22.04	-0.28	1017.66	10.6	22.90	1.80	1018.30	15.5	22.89	2.37	1018.27
5.7	22.18	-0.23	1017.77	10.7	22.90	1.83	1018.30	15.7	22.91	2.37	1018.28
5.8	22.12	-0.16	1017.72	10.8	22.89	1.89	1018.29	15.9	22.91	2.37	1018.28
5.9	22.22	-0.14	1017.80	11.0	22.87	1.93	1018.27	16.0	22.89	2.37	1018.27
6.0	22.52	-0.13	1018.05	11.1	22.87	1.95	1018.27	16.1	22.88	2.37	1018.26
6.1	22.68	-0.10	1018.17	11.2	22.85	2.00	1018.25	16.3	22.80	2.36	1018.19

Table A6.6. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85E00, July 11, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.08			5.0	1.15			15.0	27.25		
1.0	1.08			7.0	1.86			20.0	28.33		
3.0	1.09			10.0	22.36						

Table A6.7. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85F00, July 11, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.28			5.0	1.31			15.0	27.27		
1.0	1.27			7.0	1.33			20.0	27.37		
3.0	1.28			10.0	20.27						

Table A6.8. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85E00, July 15, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.12			5.0	1.12			15.0	27.04		
1.0	1.12			7.0	3.47			20.0	28.35		
3.0	1.12			10.0	18.21						

Table A6.9. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85F00, July 15, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.36			5.0	1.39			15.0	27.26		
1.0	1.37			7.0	1.72			20.0	27.37		
3.0	1.38			10.0	17.40			22.0	27.36		

STATION: 85THN DATE: 19 July 1985

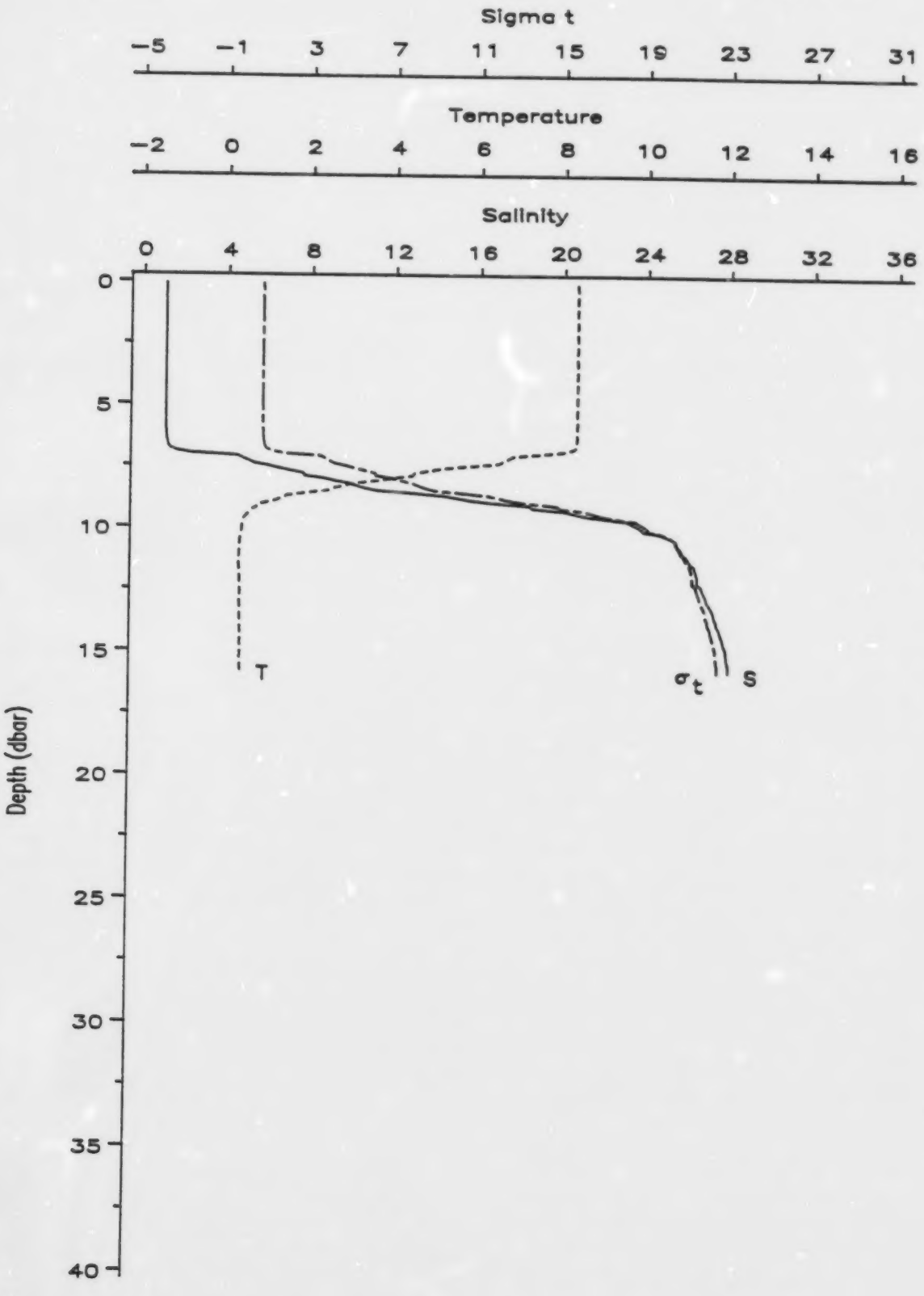

Table A6.10. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85THN, July 19, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	1.05	8.30	1000.66	5.4	1.05	8.30	1000.66	10.5	25.37	0.31	1020.33
0.2	1.05	8.30	1000.66	5.5	1.06	8.30	1000.67	10.6	25.36	0.30	1020.32
0.3	1.06	8.31	1000.67	5.7	1.05	8.31	1000.66	10.7	25.44	0.30	1020.39
0.5	1.06	8.31	1000.67	5.8	1.06	8.31	1000.67	10.8	25.57	0.30	1020.49
0.6	1.04	8.31	1000.65	5.9	1.06	8.30	1000.67	11.0	25.68	0.29	1020.58
0.7	1.05	8.31	1000.66	6.0	1.07	8.30	1000.68	11.1	25.86	0.29	1020.73
0.9	1.05	8.30	1000.66	6.1	1.08	8.30	1000.69	11.2	25.92	0.28	1020.78
1.0	1.05	8.31	1000.66	6.3	1.10	8.30	1000.70	11.3	25.99	0.29	1020.83
1.1	1.05	8.31	1000.66	6.4	1.10	8.30	1000.70	11.5	26.22	0.28	1021.02
1.2	1.05	8.30	1000.66	6.5	1.14	8.29	1000.73	11.7	26.31	0.29	1021.09
1.4	1.05	8.30	1000.66	6.7	1.18	8.28	1000.77	11.9	26.38	0.30	1021.14
1.5	1.05	8.31	1000.66	6.8	1.29	8.21	1000.86	12.1	26.38	0.30	1021.14
1.6	1.05	8.31	1000.66	6.9	1.56	7.98	1001.09	12.2	26.38	0.30	1021.14
1.7	1.05	8.31	1000.66	7.0	2.29	7.40	1001.70	12.3	26.58	0.31	1021.31
1.8	1.05	8.31	1000.66	7.1	4.47	6.78	1003.45	12.6	26.71	0.32	1021.41
2.0	1.05	8.30	1000.66	7.4	5.28	6.44	1004.11	12.7	26.79	0.31	1021.47
2.1	1.05	8.31	1000.66	7.5	5.95	5.80	1004.67	12.8	26.83	0.30	1021.51
2.2	1.05	8.30	1000.66	7.6	6.46	5.12	1005.10	12.9	26.85	0.30	1021.52
2.3	1.06	8.31	1000.67	7.8	7.65	4.46	1006.07	13.1	27.00	0.30	1021.64
2.5	1.05	8.31	1000.66	7.9	7.66	4.41	1006.08	13.2	27.07	0.31	1021.70
2.6	1.05	8.31	1000.66	8.0	8.58	3.97	1006.82	13.3	27.14	0.31	1021.76
2.8	1.05	8.31	1000.66	8.1	9.12	3.59	1007.26	13.4	27.18	0.31	1021.79
2.9	1.06	8.30	1000.67	8.2	9.78	3.06	1007.80	13.6	27.23	0.31	1021.83
3.1	1.05	8.31	1000.66	8.4	10.54	2.56	1008.41	13.7	27.31	0.31	1021.89
3.2	1.05	8.30	1000.66	8.5	11.14	2.40	1008.89	13.9	27.35	0.32	1021.92
3.3	1.05	8.31	1000.66	8.6	12.78	1.92	1010.21	14.0	27.44	0.32	1022.00
3.4	1.05	8.31	1000.66	8.7	14.28	1.44	1011.41	14.2	27.52	0.32	1022.06
3.6	1.06	8.31	1000.67	8.9	15.62	1.18	1012.49	14.3	27.56	0.33	1022.09
3.7	1.05	8.31	1000.66	9.0	16.79	0.96	1013.43	14.4	27.61	0.33	1022.13
3.9	1.05	8.30	1000.66	9.1	18.37	0.70	1014.70	14.5	27.64	0.33	1022.16
4.1	1.05	8.30	1000.66	9.2	18.52	0.70	1014.82	14.7	27.70	0.32	1022.21
4.2	1.05	8.31	1000.66	9.3	19.96	0.57	1015.98	14.8	27.76	0.33	1022.25
4.4	1.05	8.30	1000.66	9.5	21.01	0.48	1016.82	14.9	27.80	0.33	1022.29
4.6	1.05	8.30	1000.66	9.6	21.98	0.42	1017.60	15.0	27.80	0.33	1022.29
4.7	1.05	8.31	1000.66	9.7	23.01	0.37	1018.43	15.3	27.85	0.32	1022.33
4.8	1.06	8.30	1000.67	9.9	23.50	0.36	1018.83	15.4	27.87	0.32	1022.34
4.9	1.05	8.30	1000.66	10.0	23.71	0.35	1019.00	15.5	27.92	0.33	1022.38
5.0	1.05	8.31	1000.66	10.1	23.82	0.35	1019.08	15.7	27.91	0.33	1022.38
5.2	1.06	8.30	1000.67	10.2	24.60	0.33	1019.71	15.8	27.91	0.34	1022.38
5.3	1.05	8.30	1000.66	10.4	25.19	0.31	1020.19				

STATION: 85THS DATE: 19 July 1985

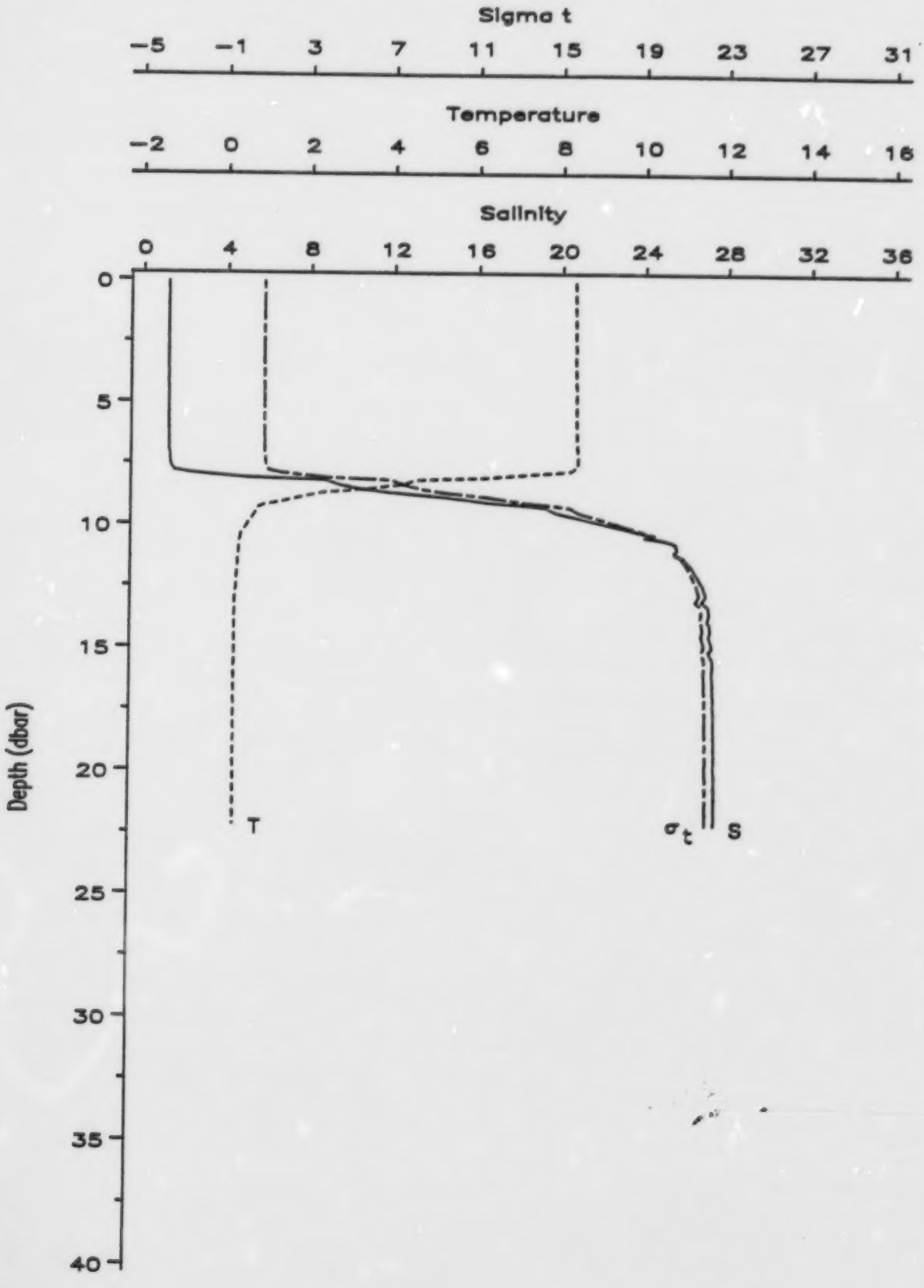

Table A6.11. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85THS, July 19, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	1.18	8.30	1000.76	6.0	1.20	8.34	1000.78	12.7	26.89	0.21	1021.56
0.2	1.18	8.30	1000.76	6.1	1.21	8.34	1000.79	12.8	26.93	0.21	1021.59
0.3	1.18	8.30	1000.76	6.3	1.20	8.34	1000.78	12.9	26.91	0.20	1021.57
0.5	1.19	8.30	1000.77	6.4	1.21	8.34	1000.79	13.1	26.72	0.19	1021.42
0.6	1.19	8.30	1000.77	6.5	1.21	8.34	1000.79	13.2	26.92	0.19	1021.58
0.7	1.18	8.30	1000.76	6.7	1.21	8.35	1000.79	13.3	27.05	0.19	1021.69
0.9	1.18	8.31	1000.76	6.8	1.22	8.35	1000.79	13.4	27.08	0.20	1021.71
1.0	1.18	8.30	1000.76	6.9	1.22	8.35	1000.79	13.6	27.09	0.19	1021.72
1.1	1.18	8.30	1000.76	7.0	1.22	8.36	1000.79	13.7	27.07	0.19	1021.70
1.2	1.18	8.30	1000.76	7.1	1.25	8.37	1000.82	13.8	27.03	0.19	1021.67
1.4	1.18	8.31	1000.76	7.3	1.27	8.37	1000.83	13.9	27.01	0.19	1021.66
1.5	1.18	8.31	1000.76	7.4	1.28	8.37	1000.84	14.0	27.12	0.19	1021.74
1.6	1.18	8.31	1000.76	7.5	1.29	8.37	1000.85	14.2	27.15	0.19	1021.77
1.7	1.18	8.31	1000.76	7.6	1.32	8.36	1000.87	14.3	27.17	0.19	1021.78
1.8	1.18	8.31	1000.76	7.8	1.47	8.21	1001.00	14.4	27.12	0.19	1021.74
2.0	1.18	8.31	1000.76	7.9	2.17	7.60	1001.59	14.5	27.09	0.19	1021.72
2.1	1.18	8.32	1000.76	8.0	3.35	6.85	1002.56	14.8	27.21	0.19	1021.82
2.2	1.18	8.31	1000.76	8.1	4.94	6.11	1003.86	14.9	27.23	0.19	1021.83
2.3	1.18	8.31	1000.76	8.2	8.69	4.54	1006.89	15.0	27.23	0.19	1021.83
2.5	1.18	8.31	1000.76	8.4	9.41	4.15	1007.47	15.1	27.08	0.19	1021.71
2.6	1.18	8.31	1000.76	8.6	10.69	3.11	1008.52	15.3	27.17	0.19	1021.78
2.7	1.18	8.32	1000.76	8.7	11.75	2.33	1009.38	15.4	27.25	0.19	1021.85
2.8	1.18	8.32	1000.76	8.9	14.53	1.76	1011.61	15.5	27.27	0.19	1021.86
2.9	1.18	8.32	1000.76	9.1	16.45	1.25	1013.15	15.7	27.28	0.18	1021.87
3.1	1.18	8.31	1000.76	9.2	18.12	0.91	1014.49	15.8	27.28	0.18	1021.87
3.2	1.18	8.31	1000.76	9.3	19.20	0.76	1015.36	15.9	27.26	0.18	1021.86
3.3	1.18	8.31	1000.76	9.5	19.70	0.69	1015.77	16.0	27.25	0.18	1021.85
3.4	1.18	8.31	1000.76	10.4	24.27	0.33	1019.45	16.1	27.25	0.18	1021.85
3.6	1.18	8.31	1000.76	10.5	23.96	0.33	1019.20	16.3	27.28	0.18	1021.87
3.8	1.19	8.32	1000.77	10.6	24.86	0.31	1019.92	16.4	27.28	0.18	1021.87
3.9	1.19	8.32	1000.77	10.7	25.36	0.29	1020.32	16.5	27.30	0.18	1021.89
4.1	1.18	8.32	1000.76	10.8	25.51	0.29	1020.44	16.6	27.28	0.18	1021.87
4.2	1.18	8.32	1000.76	11.0	25.52	0.28	1020.45	16.8	27.30	0.18	1021.89
4.3	1.19	8.32	1000.77	11.1	25.44	0.28	1020.39	16.9	27.29	0.18	1021.88
4.4	1.20	8.33	1000.78	11.2	25.50	0.28	1020.44	17.0	27.32	0.18	1021.91
4.6	1.20	8.33	1000.78	11.3	25.84	0.26	1020.71	17.1	27.32	0.17	1021.91
4.8	1.20	8.33	1000.78	11.5	26.04	0.26	1020.87	17.2	27.32	0.18	1021.91
4.9	1.20	8.33	1000.78	11.6	26.16	0.26	1020.97	17.4	27.31	0.18	1021.90
5.0	1.20	8.33	1000.78	11.7	26.25	0.25	1021.04	17.5	27.32	0.18	1021.91
5.2	1.20	8.33	1000.78	11.8	26.30	0.24	1021.08	17.6	27.33	0.18	1021.91
5.3	1.20	8.33	1000.78	11.9	26.39	0.24	1021.15	17.7	27.34	0.18	1021.92
5.4	1.20	8.33	1000.78	12.1	26.54	0.23	1021.28	18.0	27.34	0.17	1021.92
5.5	1.20	8.33	1000.78	12.2	26.60	0.23	1021.32	18.1	27.34	0.18	1021.92
5.7	1.20	8.33	1000.78	12.3	26.66	0.22	1021.37	18.2	27.33	0.18	1021.91
5.8	1.20	8.33	1000.78	12.4	26.77	0.23	1021.46	18.3	27.33	0.19	1021.91
5.9	1.20	8.33	1000.78	12.6	26.82	0.22	1021.50	18.5	27.35	0.18	1021.93

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Table A6.11. Station 85THS continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
18.6	27.34	0.19	1021.92	19.7	27.37	0.18	1021.95	21.1	27.38	0.19	1021.95
18.7	27.35	0.18	1021.93	19.8	27.34	0.18	1021.92	21.2	27.38	0.19	1021.95
18.9	27.36	0.18	1021.94	20.0	27.36	0.19	1021.94	21.3	27.39	0.19	1021.96
19.0	27.36	0.18	1021.94	20.1	27.38	0.19	1021.95	21.4	27.38	0.19	1021.95
19.1	27.34	0.18	1021.92	20.2	27.38	0.19	1021.95	21.6	27.37	0.19	1021.95
19.2	27.36	0.18	1021.94	20.3	27.39	0.19	1021.96	21.7	27.39	0.19	1021.96
19.4	27.38	0.18	1021.95	20.6	27.38	0.19	1021.95	21.8	27.39	0.19	1021.96
19.5	27.36	0.19	1021.94	20.7	27.36	0.19	1021.94	22.1	27.37	0.19	1021.95
19.6	27.37	0.18	1021.95	20.8	27.39	0.19	1021.96	22.2	27.37	0.19	1021.95

STATION: 85THN DATE: 20 July 1985

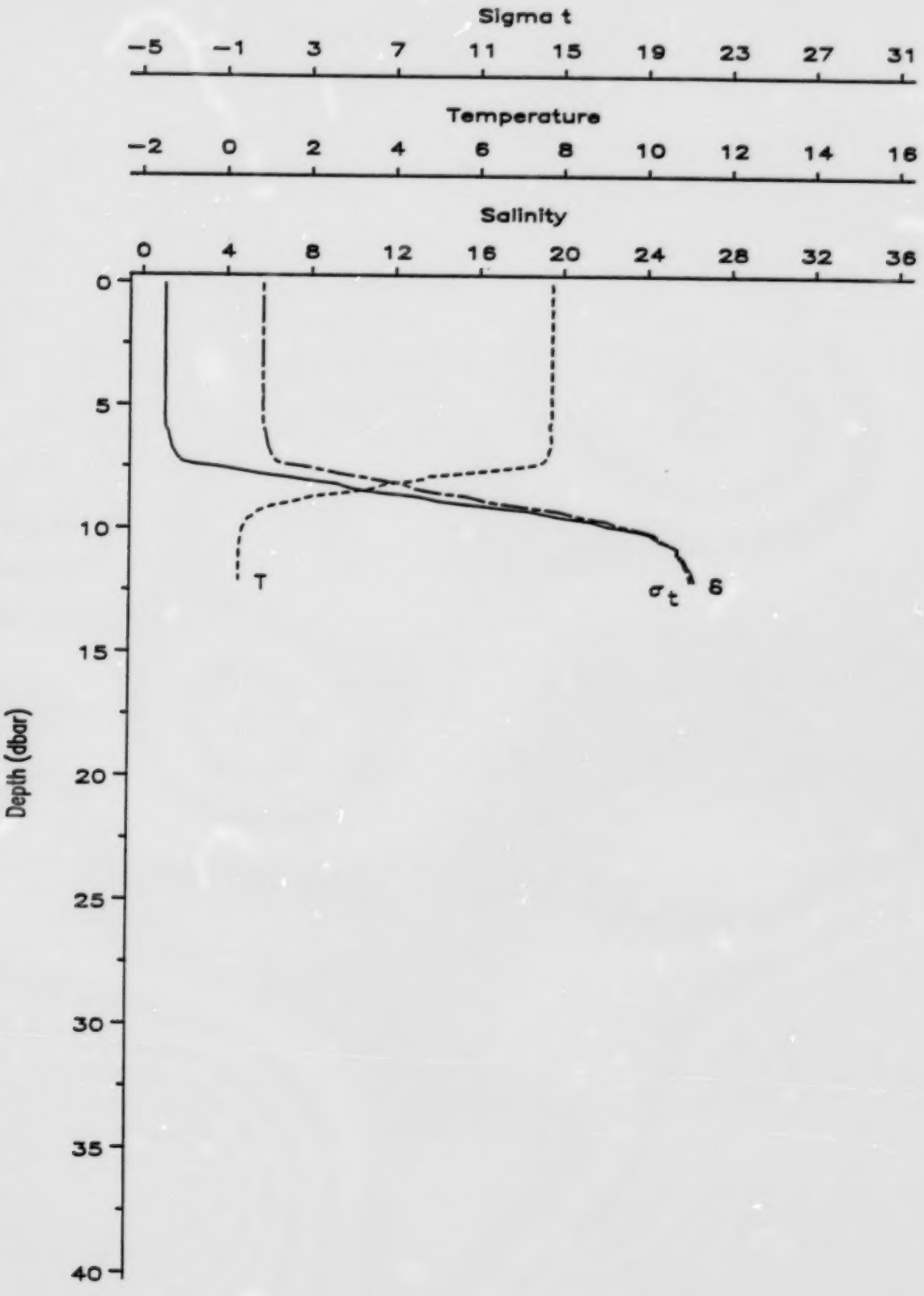

Table A6.12. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85THN, July 20, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	1.07	7.73	1000.71	4.2	1.07	7.73	1000.71	8.1	8.29	4.37	1006.58
0.2	1.07	7.74	1000.71	4.3	1.07	7.73	1000.71	8.2	9.24	3.80	1007.35
0.3	1.07	7.74	1000.71	4.4	1.08	7.73	1000.72	8.4	9.98	3.45	1007.95
0.5	1.07	7.73	1000.71	4.6	1.08	7.72	1000.72	8.5	10.74	3.08	1008.56
0.6	1.07	7.74	1000.71	4.7	1.08	7.72	1000.72	8.6	11.67	2.64	1009.31
0.7	1.07	7.73	1000.71	4.8	1.09	7.72	1000.73	8.7	12.99	2.06	1010.37
0.9	1.07	7.73	1000.71	4.9	1.08	7.73	1000.72	8.9	14.10	1.63	1011.27
1.0	1.07	7.74	1000.71	5.0	1.07	7.73	1000.71	9.0	15.02	1.36	1012.00
1.1	1.07	7.74	1000.71	5.2	1.08	7.72	1000.72	9.1	16.14	1.08	1012.90
1.2	1.07	7.74	1000.71	5.3	1.07	7.73	1000.71	9.2	17.30	0.90	1013.84
1.4	1.07	7.73	1000.71	5.4	1.07	7.73	1000.71	9.3	18.46	0.76	1014.77
1.5	1.07	7.73	1000.71	5.5	1.08	7.73	1000.72	9.5	19.67	0.63	1015.69
1.6	1.07	7.74	1000.71	5.7	1.09	7.72	1000.73	9.6	20.43	0.52	1016.35
1.7	1.07	7.74	1000.71	5.8	1.10	7.67	1000.74	9.7	21.28	0.46	1017.04
1.8	1.07	7.74	1000.71	5.9	1.11	7.68	1000.75	9.9	22.09	0.41	1017.69
2.0	1.06	7.74	1000.71	6.0	1.19	7.71	1000.81	10.0	22.88	0.37	1018.33
2.1	1.06	7.74	1000.71	6.1	1.25	7.71	1000.86	10.1	23.50	0.35	1018.83
2.3	1.07	7.73	1000.71	6.3	1.28	7.71	1000.88	10.2	24.05	0.33	1019.27
2.5	1.07	7.73	1000.71	6.4	1.32	7.72	1000.91	10.5	24.58	0.32	1019.70
2.6	1.07	7.74	1000.71	6.5	1.35	7.71	1000.94	10.6	24.91	0.30	1019.96
2.7	1.07	7.73	1000.71	6.7	1.40	7.71	1000.98	10.7	25.20	0.30	1020.20
2.8	1.07	7.73	1000.71	6.8	1.46	7.67	1001.03	10.8	25.42	0.29	1020.37
2.9	1.07	7.73	1000.71	6.9	1.53	7.65	1001.08	11.0	25.38	0.29	1020.34
3.1	1.07	7.73	1000.71	7.0	1.59	7.65	1001.13	11.1	25.55	0.29	1020.48
3.2	1.07	7.73	1000.71	7.1	1.67	7.63	1001.19	11.2	25.64	0.29	1020.55
3.3	1.07	7.73	1000.71	7.3	1.91	7.53	1001.39	11.3	25.78	0.28	1020.66
3.4	1.07	7.73	1000.71	7.4	2.48	7.37	1001.85	11.5	25.87	0.28	1020.73
3.6	1.07	7.73	1000.71	7.5	3.57	7.06	1002.73	11.6	25.97	0.28	1020.82
3.7	1.07	7.73	1000.71	7.6	4.29	6.55	1003.32	11.7	26.05	0.28	1020.88
3.8	1.07	7.73	1000.71	7.8	5.63	5.46	1004.43	11.8	26.08	0.28	1020.90
3.9	1.07	7.73	1000.71	7.9	6.64	4.75	1005.26	11.9	26.13	0.28	1020.94
4.1	1.07	7.73	1000.71	8.0	7.42	4.67	1005.88	12.1	26.20	0.29	1021.00

Table A6.13. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85E00, July 22, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.07			5.0	1.15			15.0	25.78		
1.0	1.06			7.0	1.43			20.0	28.33		
3.0	1.08			10.0	10.41						

Table A6.14. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85F00, July 22, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.21			5.0	1.32			15.0	27.28		
1.0	1.21			7.0	1.38			20.0	27.40		
3.0	1.29			10.0	19.48			25.0	27.40		

Table A6.15. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85E00, July 30, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.85			5.0	1.11			15.0	26.81		
1.0	0.85			7.0	1.31			20.0	28.37		
3.0	0.91			10.0	15.32						

Table A6.16. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85F00, July 30, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.02			5.0	1.19			15.0	27.04		
1.0	1.05			7.0	1.31			25.0	27.39		
3.0	1.14			10.0	21.53						

Table A6.17. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85F00, August 2, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.99			5.0	1.04			15.0	26.91		
1.0	0.99			7.0	1.18			25.0	27.40		
3.0	1.02			10.0	18.74						

Table A6.18. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85E00, August 2, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.85			5.0	0.95			15.0	26.56		
1.0	0.86			7.0	1.28			20.0	26.74		
3.0	1.07			10.0	15.09						

STATION: 85THN DATE: 8 August 1985

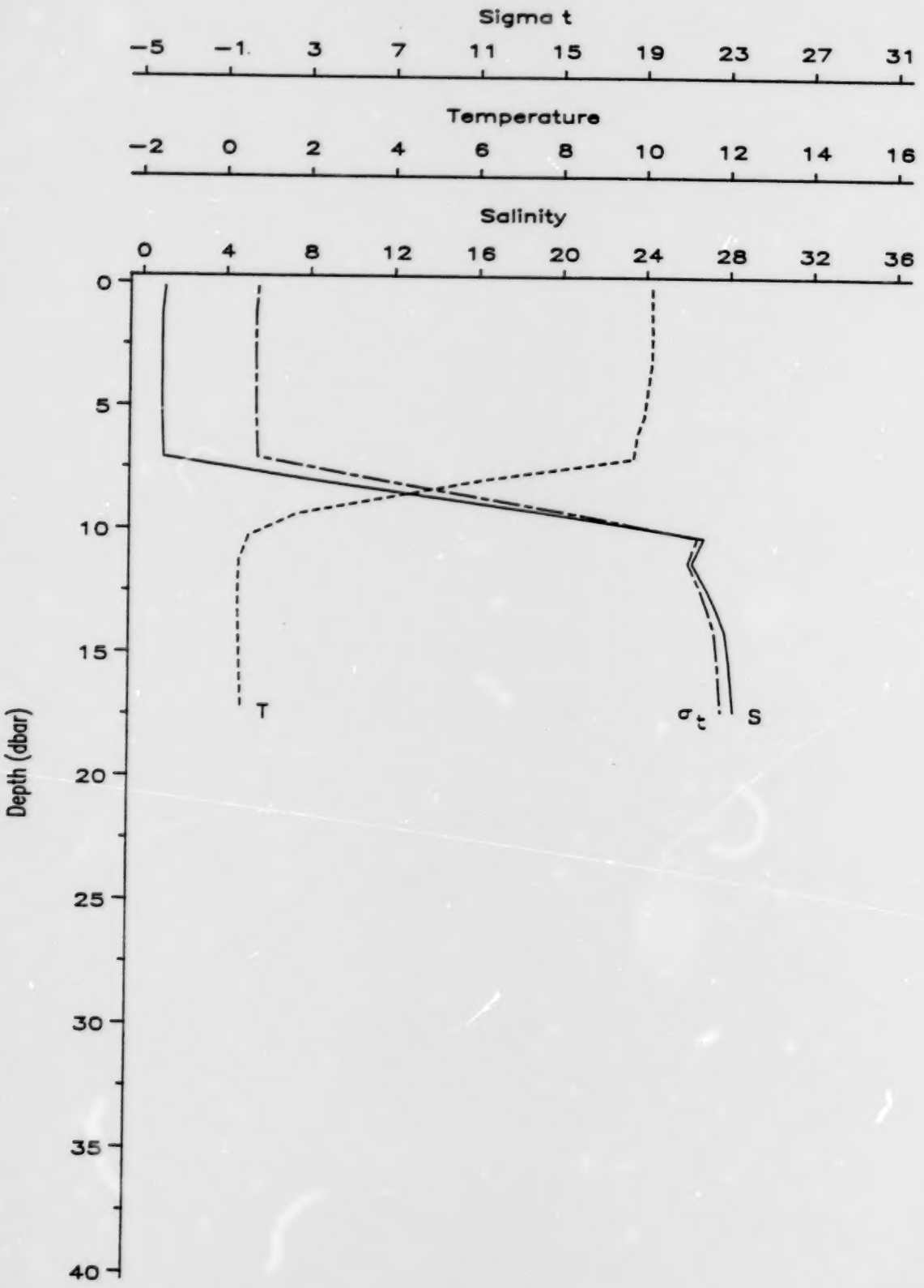

Table A6.19. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85E00, August 8, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	0.99			5.0	1.02			15.0	26.27		
1.0	0.99			7.0	1.03			20.0	28.37		
3.0	0.99			10.0	11.15						

Table A6.20. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85THN, August 8, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	1.05	10.13	1000.52	6.1	0.98	9.79	1000.49	12.4	26.94	0.31	1021.60
1.2	0.93	10.13	1000.42	7.1	1.03	9.70	1000.54	13.2	27.38	0.31	1021.95
2.2	0.93	10.14	1000.42	8.0	7.92	6.10	1006.21	14.1	27.80	0.33	1022.29
3.2	0.93	10.13	1000.42	9.4	19.88	1.70	1015.89	15.4	28.00	0.35	1022.45
4.2	0.93	10.04	1000.43	10.3	26.78	0.56	1021.46	17.3	28.20	0.40	1022.61
5.4	0.95	9.95	1000.45	11.3	26.20	0.33	1021.00				

STATION: 85THS DATE: 8 August 1985

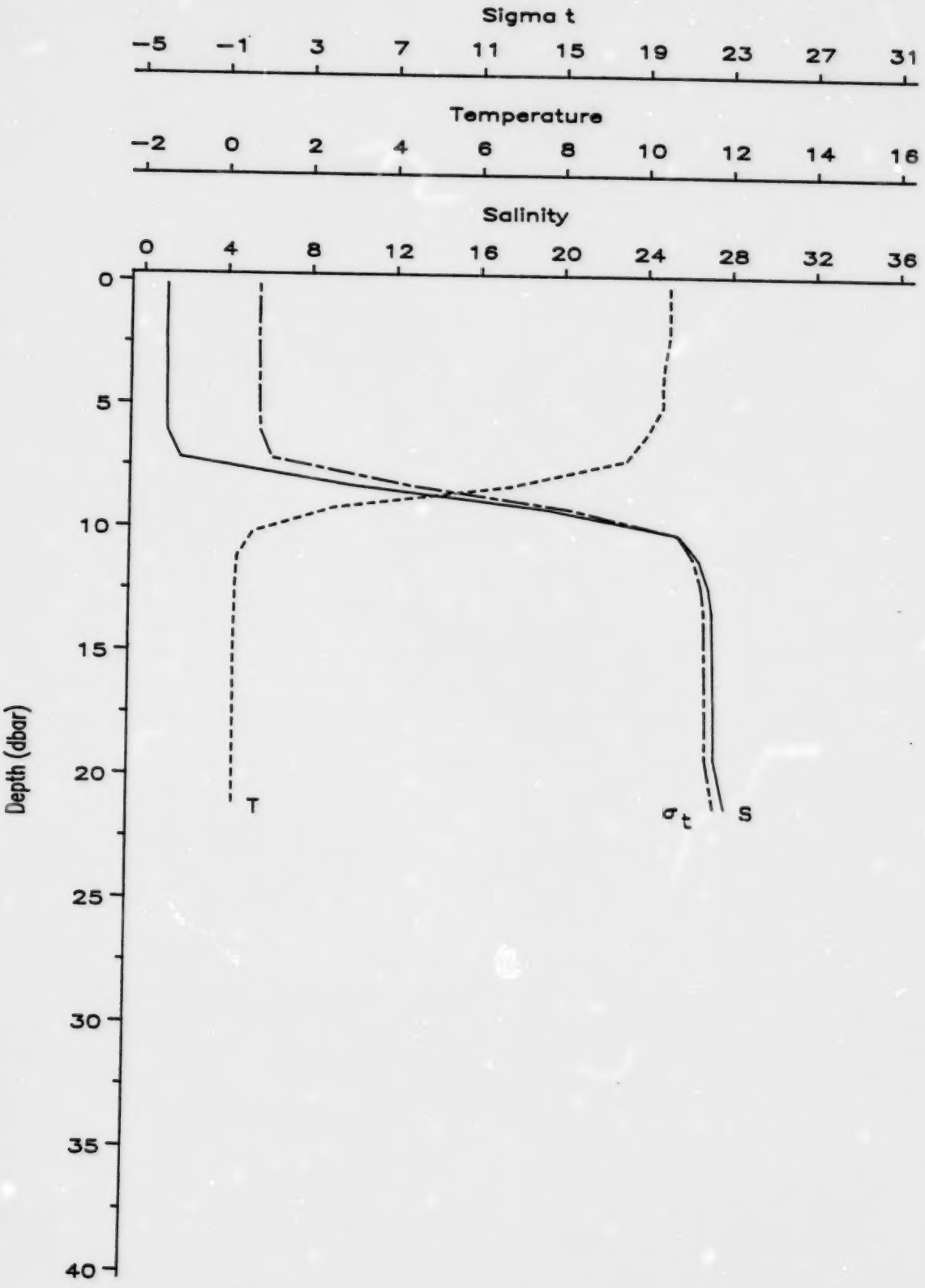

Table A6.21. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85F00, August 8, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.14			5.0	1.18			15.0	27.04		
1.0	1.13			7.0	1.26			20.0	27.38		
3.0	1.15			10.0	14.52			25.0	27.39		

Table A6.22. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85THS, August 8, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	1.09	10.50	1000.51	6.1	1.16	10.01	1000.61	12.3	26.97	0.23	1021.62
1.2	1.09	10.51	1000.51	7.2	1.79	9.52	1001.15	13.3	27.15	0.22	1021.77
2.2	1.08	10.51	1000.50	8.3	9.99	6.73	1007.80	15.5	27.23	0.20	1021.83
3.4	1.11	10.39	1000.54	9.2	19.20	2.57	1015.31	17.2	27.29	0.21	1021.88
4.2	1.11	10.35	1000.54	10.2	25.54	0.65	1020.46	19.2	27.32	0.21	1021.90
5.0	1.12	10.37	1000.55	11.2	26.51	0.27	1021.25	21.2	27.84	0.22	1022.32

Table A6.23. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85E00, August 20, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.75			5.0	2.33			15.0	26.58		
1.0	1.77			7.0	8.97			20.0	28.32		
3.0	1.76			10.0	16.57						

Table A6.24. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85F00, August 20, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	1.99			5.0	2.23			20.0	27.34		
1.0	2.00			10.0	16.92			23.0	27.35		
3.0	2.08			15.0	15.61						

Table A6.25. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85E00, August 27, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	3.12			7.0	20.98			20.0	28.32		
3.0	10.16			10.0	23.84						
5.0	17.24			15.0	25.24						

Table A6.26. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85F00, August 27, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	2.77			5.0	17.68			15.0	26.61		
1.0	3.39			7.0	20.70			20.0	27.24		
3.0	11.29			10.0	21.95						

Table A6.27. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85E00, September 2, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	13.14			5.0	24.83			15.0	28.07		
1.0	14.32			7.0	26.30			20.0	28.18		
3.0	22.09			10.0	27.10						

STATION: 85THN DATE: 2 September 1985

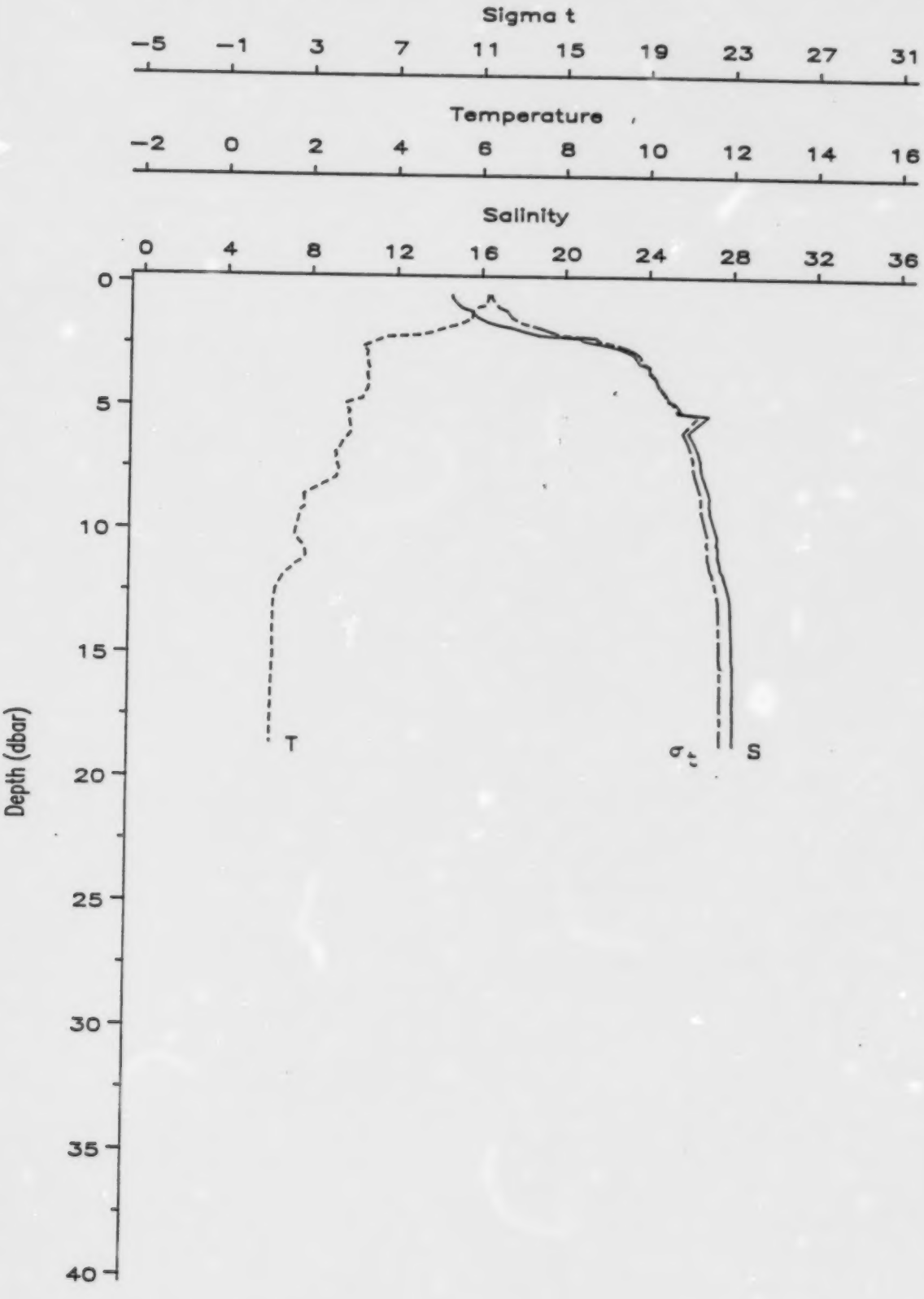

Table A6.28. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85THN, September 2, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.5	14.60	6.15	1011.46	5.2	25.57	2.93	1020.37	12.3	27.79	1.25	1022.24
0.6	14.61	6.15	1011.47	5.3	26.85	2.89	1021.39	12.4	27.84	1.20	1022.28
0.9	14.93	6.09	1011.73	6.0	25.87	2.95	1020.61	12.6	27.89	1.18	1022.32
1.0	15.06	5.86	1011.85	6.1	25.96	2.93	1020.68	12.8	27.94	1.15	1022.37
1.1	15.47	5.79	1012.18	6.4	26.16	2.77	1020.85	12.9	27.95	1.15	1022.37
1.4	15.82	5.77	1012.45	6.7	26.31	2.68	1020.98	13.1	27.96	1.14	1022.38
1.6	16.34	5.58	1012.88	6.8	26.37	2.63	1021.03	13.2	27.96	1.14	1022.38
1.7	16.81	5.39	1013.26	6.9	26.39	2.58	1021.05	13.3	27.98	1.13	1022.40
1.8	17.40	5.17	1013.74	7.0	26.42	2.62	1021.07	13.4	27.97	1.14	1022.39
2.0	18.27	4.83	1014.45	7.1	26.47	2.58	1021.11	14.4	28.03	1.13	1022.44
2.1	18.77	4.59	1014.86	7.4	26.50	2.64	1021.13	14.5	28.04	1.14	1022.45
2.2	20.75	3.72	1016.49	7.5	26.51	2.67	1021.14	14.7	28.04	1.14	1022.45
2.3	20.83	3.62	1016.56	7.8	26.61	2.64	1021.22	14.8	28.04	1.15	1022.45
2.5	22.07	3.33	1017.56	7.9	26.67	2.61	1021.27	14.9	28.05	1.15	1022.45
2.6	22.56	3.19	1017.96	8.6	26.94	1.84	1021.53	15.1	28.04	1.15	1022.45
2.7	22.86	3.29	1018.19	8.7	26.93	1.85	1021.52	15.3	28.07	1.14	1022.47
2.8	23.14	3.33	1018.41	9.0	26.92	1.86	1021.51	15.4	28.09	1.13	1022.49
2.9	23.31	3.31	1018.55	9.1	26.97	1.87	1021.55	15.5	28.09	1.13	1022.49
3.1	23.49	3.31	1018.69	9.2	26.95	1.78	1021.54	15.7	28.09	1.13	1022.49
3.2	23.54	3.33	1018.73	10.2	27.31	1.63	1021.84	16.5	28.11	1.11	1022.50
3.3	23.85	3.33	1018.98	10.4	27.29	1.70	1021.82	16.6	28.11	1.11	1022.50
3.4	24.02	3.36	1019.11	10.5	27.25	1.75	1021.78	16.8	28.10	1.11	1022.50
3.6	24.04	3.37	1019.12	10.6	27.33	1.80	1021.84	16.9	28.10	1.11	1022.50
3.7	24.16	3.31	1019.22	10.7	27.33	1.87	1021.84	17.1	28.10	1.11	1022.50
3.8	24.28	3.33	1019.32	11.0	27.34	1.89	1021.85	17.2	28.12	1.10	1022.51
3.9	24.36	3.34	1019.38	11.1	27.35	1.89	1021.85	17.4	28.12	1.11	1022.51
4.1	24.43	3.35	1019.44	11.2	27.42	1.83	1021.91	17.5	28.12	1.11	1022.51
4.2	24.54	3.34	1019.52	11.3	27.43	1.77	1021.92	17.6	28.14	1.10	1022.53
4.3	24.66	3.32	1019.62	11.5	27.46	1.56	1021.96	17.9	28.12	1.10	1022.51
4.4	24.77	3.29	1019.71	11.6	27.51	1.55	1022.00	18.0	28.13	1.09	1022.52
4.7	24.96	3.20	1019.87	11.7	27.61	1.47	1022.08	18.1	28.13	1.10	1022.52
4.8	25.21	2.97	1020.08	11.8	27.61	1.42	1022.09	18.2	28.12	1.10	1022.51
4.9	25.34	2.82	1020.19	11.9	27.66	1.36	1022.13	18.5	28.12	1.10	1022.51
5.0	25.42	2.80	1020.26	12.2	27.78	1.26	1022.23	18.6	28.13	1.10	1022.52

Table A6.29. Salinity, temperature (C) and density (kg.m**-3) data by depth (m) for station 85F00, September 2, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.0	11.12			5.0	23.18			15.0	27.58		
1.0	11.19			7.0	26.03			20.0	27.67		
3.0	20.70			10.0	27.09			23.0	27.66		

STATION: 85THS DATE: 2 September 1985

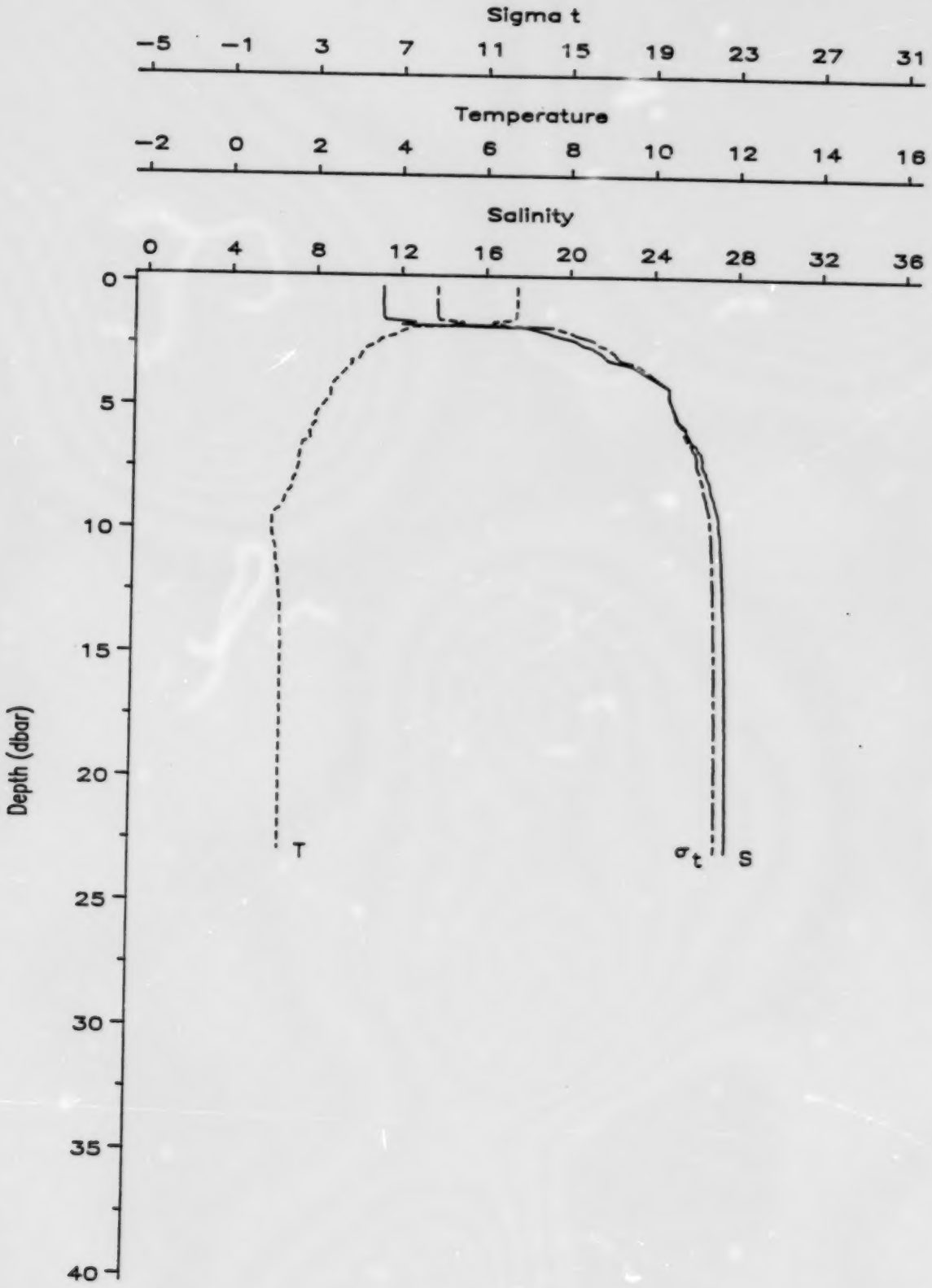

Table A6.30. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 85THS, September 2, 1985.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	11.15	6.74	1008.71	7.9	26.62	1.52	1021.29	15.0	27.50	1.23	1022.01
0.5	11.15	6.74	1008.71	8.0	26.68	1.47	1021.34	15.1	27.50	1.23	1022.01
0.6	11.16	6.73	1008.72	8.1	26.71	1.47	1021.36	15.3	27.50	1.23	1022.01
0.7	11.14	6.74	1008.70	8.2	26.72	1.47	1021.37	15.4	27.50	1.23	1022.01
0.9	11.14	6.74	1008.70	8.4	26.76	1.43	1021.41	15.5	27.51	1.23	1022.02
1.0	11.16	6.74	1008.72	8.5	26.81	1.37	1021.45	15.8	27.52	1.23	1022.02
1.1	11.17	6.72	1008.72	8.7	26.91	1.30	1021.53	15.9	27.54	1.23	1022.04
1.2	11.17	6.73	1008.72	8.9	26.95	1.27	1021.57	16.0	27.54	1.24	1022.04
1.4	11.18	6.72	1008.73	9.0	26.99	1.23	1021.60	16.1	27.53	1.23	1022.03
1.5	11.27	6.65	1008.81	9.2	27.06	1.16	1021.66	16.3	27.53	1.23	1022.03
1.6	12.66	6.17	1009.94	9.3	27.10	1.07	1021.69	16.5	27.53	1.23	1022.03
1.7	12.02	6.44	1009.41	9.5	27.14	1.00	1021.73	16.6	27.54	1.24	1022.04
1.8	17.91	4.26	1014.20	9.7	27.14	1.00	1021.73	16.8	27.55	1.23	1022.05
2.0	18.92	3.99	1015.02	9.9	27.16	0.98	1021.75	16.9	27.54	1.24	1022.04
2.1	19.23	3.90	1015.27	10.0	27.18	0.97	1021.76	17.0	27.56	1.23	1022.06
2.3	20.22	3.53	1016.08	10.1	27.21	1.00	1021.79	17.1	27.55	1.24	1022.05
2.5	20.62	3.42	1016.40	10.2	27.23	1.00	1021.80	17.2	27.56	1.23	1022.06
2.6	21.07	3.25	1016.77	10.4	27.24	1.03	1021.81	17.4	27.55	1.24	1022.05
2.7	21.21	3.17	1016.89	10.6	27.25	1.05	1021.82	17.5	27.56	1.23	1022.06
2.8	21.46	3.12	1017.09	10.7	27.25	1.08	1021.81	17.6	27.56	1.24	1022.06
2.9	21.59	3.08	1017.19	10.8	27.27	1.09	1021.83	17.7	27.58	1.24	1022.07
3.1	21.84	3.02	1017.40	11.1	27.30	1.09	1021.85	17.9	27.55	1.24	1022.05
3.2	22.43	2.83	1017.88	11.2	27.31	1.09	1021.86	18.0	27.58	1.23	1022.07
3.3	22.92	2.86	1018.26	11.3	27.31	1.10	1021.86	18.1	27.58	1.23	1022.07
4.2	24.71	2.35	1019.72	11.5	27.32	1.10	1021.87	18.2	27.59	1.23	1022.08
4.6	24.71	2.35	1019.72	11.6	27.31	1.12	1021.86	18.3	27.57	1.24	1022.06
5.3	25.06	2.02	1020.02	11.7	27.31	1.15	1021.86	18.5	27.59	1.23	1022.08
5.4	25.08	1.99	1020.03	11.8	27.35	1.14	1021.89	18.6	27.58	1.24	1022.07
5.5	25.12	1.99	1020.07	11.9	27.34	1.16	1021.88	18.9	27.59	1.23	1022.08
5.7	25.39	2.00	1020.28	12.1	27.35	1.16	1021.89	19.0	27.58	1.23	1022.07
5.8	25.52	1.93	1020.39	12.2	27.35	1.16	1021.89	19.1	27.58	1.23	1022.07
5.9	25.52	1.92	1020.39	12.3	27.37	1.17	1021.91	19.2	27.60	1.23	1022.09
6.0	25.54	1.91	1020.41	12.4	27.38	1.17	1021.92	19.4	27.59	1.22	1022.08
6.1	25.64	1.85	1020.49	12.6	27.39	1.18	1021.92	19.5	27.60	1.23	1022.09
6.3	25.75	1.88	1020.58	12.7	27.38	1.18	1021.91	19.6	27.60	1.22	1022.09
6.4	25.82	1.85	1020.63	12.8	27.39	1.19	1021.92	19.7	27.59	1.22	1022.08
6.5	26.02	1.69	1020.80	12.9	27.39	1.19	1021.92	20.5	27.61	1.24	1022.10
6.7	26.11	1.66	1020.87	13.1	27.39	1.21	1021.92	20.7	27.61	1.24	1022.10
6.8	26.27	1.64	1021.00	13.2	27.42	1.21	1021.95	20.8	27.61	1.24	1022.10
7.0	26.32	1.62	1021.04	13.3	27.42	1.21	1021.95	21.1	27.61	1.24	1022.10
7.1	26.34	1.60	1021.06	13.4	27.43	1.21	1021.95	21.2	27.63	1.24	1022.11
7.3	26.32	1.60	1021.05	14.3	27.47	1.23	1021.98	21.3	27.63	1.24	1022.11
7.4	26.37	1.61	1021.08	14.4	27.47	1.24	1021.98	21.6	27.62	1.24	1022.10
7.5	26.42	1.59	1021.13	14.5	27.48	1.24	1021.99	21.7	27.62	1.24	1022.10
7.6	26.50	1.57	1021.19	14.7	27.48	1.24	1021.99	21.8	27.64	1.24	1022.12
7.8	26.56	1.55	1021.24	14.9	27.50	1.23	1022.01	21.9	27.64	1.24	1022.12

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Table A6.30. Station 85THS continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
22.1	27.62	1.24	1022.10	22.4	27.63	1.24	1022.11	22.9	27.62	1.24	1022.10
22.2	27.64	1.24	1022.12	22.7	27.64	1.24	1022.12				
22.3	27.64	1.24	1022.12	22.8	27.62	1.24	1022.10				

STATION: 86T01 DATE: 10 March 1986

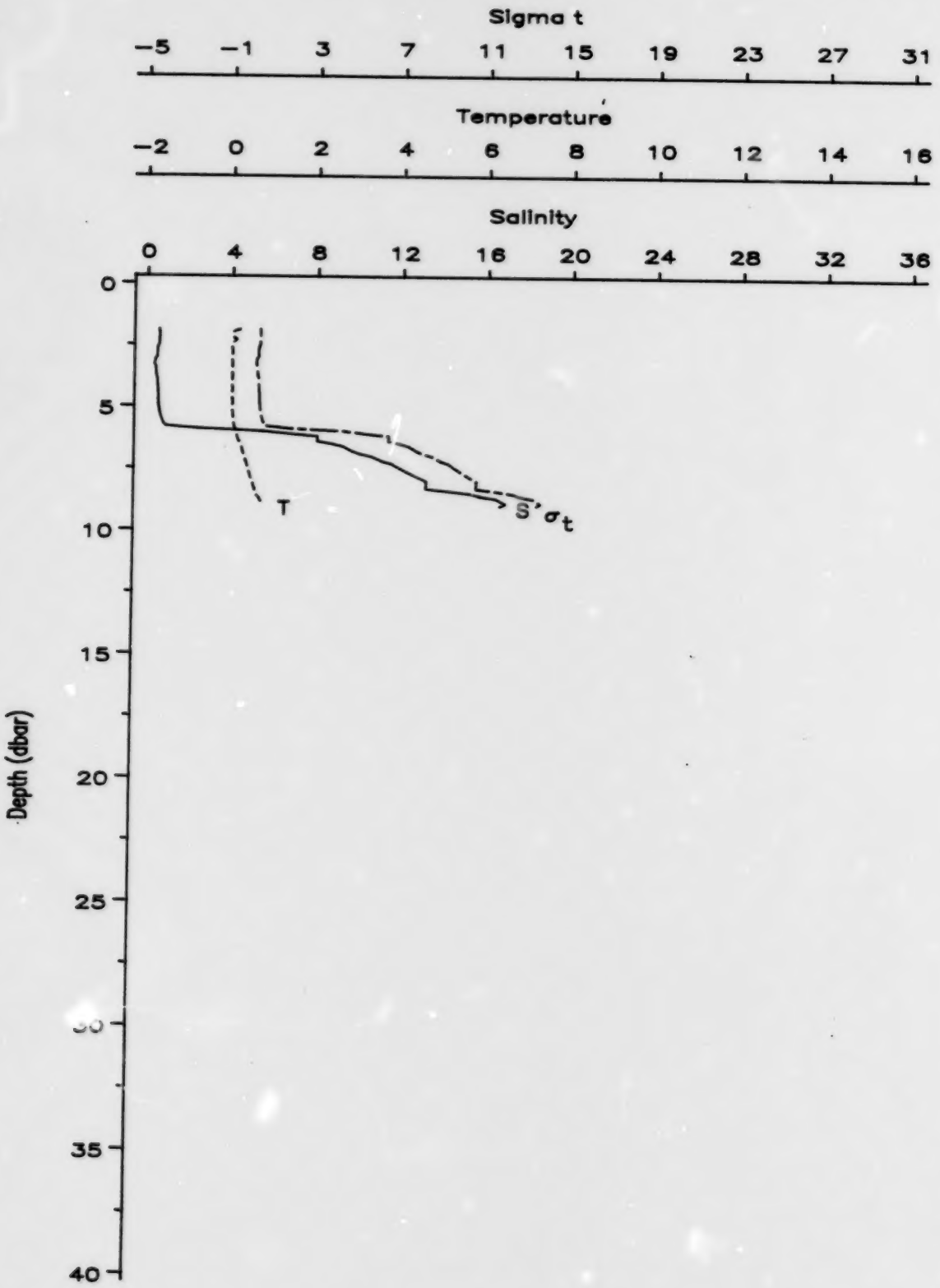

Table A7.1. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86T01, March 10, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.9	0.56	0.17	1000.31	4.2	0.50	0.00	1000.25	6.5	8.70	0.21	1006.91
2.0	0.57	0.01	1000.31	4.3	0.51	0.01	1000.26	6.6	9.19	0.23	1007.31
2.2	0.58	0.00	1000.32	4.4	0.51	0.00	1000.26	6.8	9.67	0.25	1007.70
2.3	0.57	0.10	1000.32	4.6	0.53	0.01	1000.28	6.9	9.98	0.27	1007.95
2.5	0.57	-0.02	1000.31	4.7	0.53	0.00	1000.28	7.0	10.54	0.30	1008.40
2.6	0.50	-0.01	1000.25	4.8	0.53	0.01	1000.28	7.2	11.08	0.33	1008.83
2.7	0.47	0.00	1000.23	4.9	0.54	0.01	1000.29	7.3	11.50	0.35	1009.17
3.0	0.47	0.00	1000.23	5.1	0.57	0.00	1000.31	7.5	11.93	0.38	1009.52
3.1	0.38	0.00	1000.15	5.2	0.59	0.01	1000.33	7.8	12.62	0.43	1010.08
3.3	0.33	0.00	1000.11	5.4	0.64	0.02	1000.37	8.0	13.15	0.48	1010.50
3.4	0.40	0.00	1000.17	5.7	0.78	0.04	1000.48	8.3	13.12	0.53	1010.48
3.6	0.41	0.00	1000.18	5.8	0.91	0.05	1000.59	8.5	15.27	0.56	1012.21
3.7	0.42	0.00	1000.19	5.9	2.42	0.07	1001.82	8.6	15.67	0.59	1012.53
3.8	0.44	0.00	1000.20	6.0	5.42	0.09	1004.26	8.7	16.44	0.65	1013.15
3.9	0.48	0.00	1000.24	6.2	8.02	0.12	1006.36	8.9	16.88	0.70	1013.50
4.1	0.48	0.00	1000.24	6.4	8.01	0.16	1006.35	9.0	16.62	0.70	1013.29

STATION: 86T02 DATE: 11 March 1986

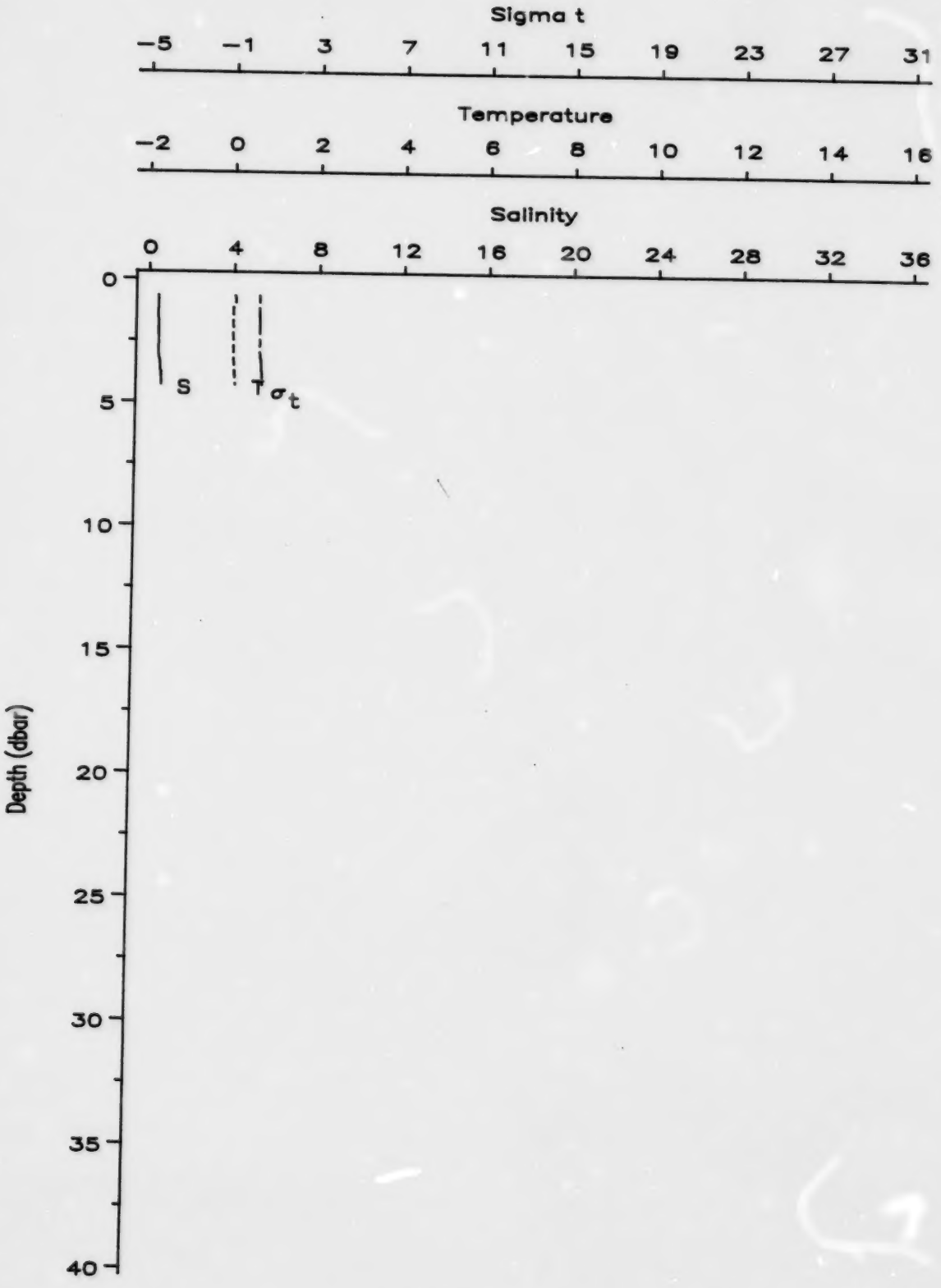

Table A7.2. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86T02, March 11, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.7	0.43	0.03	1000.20	2.1	0.45	-0.02	1000.21	3.3	0.52	-0.01	1000.27
0.8	0.43	0.04	1000.20	2.2	0.46	-0.02	1000.22	3.4	0.53	0.00	1000.28
1.0	0.43	0.04	1000.20	2.3	0.46	-0.02	1000.22	3.6	0.54	0.00	1000.29
1.2	0.43	-0.02	1000.19	2.6	0.47	-0.01	1000.23	3.7	0.54	0.00	1000.29
1.4	0.42	-0.02	1000.19	2.7	0.46	-0.01	1000.22	3.8	0.58	0.02	1000.32
1.5	0.42	-0.01	1000.19	2.8	0.46	-0.01	1000.22	3.9	0.58	0.02	1000.32
1.7	0.45	-0.02	1000.21	3.0	0.46	-0.01	1000.22	4.1	0.59	0.03	1000.33
1.9	0.45	-0.02	1000.21	3.1	0.47	-0.01	1000.23	4.2	0.60	0.04	1000.34
2.0	0.45	-0.01	1000.21	3.2	0.48	0.00	1000.24	4.3	0.60	0.04	1000.34

STATION: 86T08 DATE: 12 March 1986

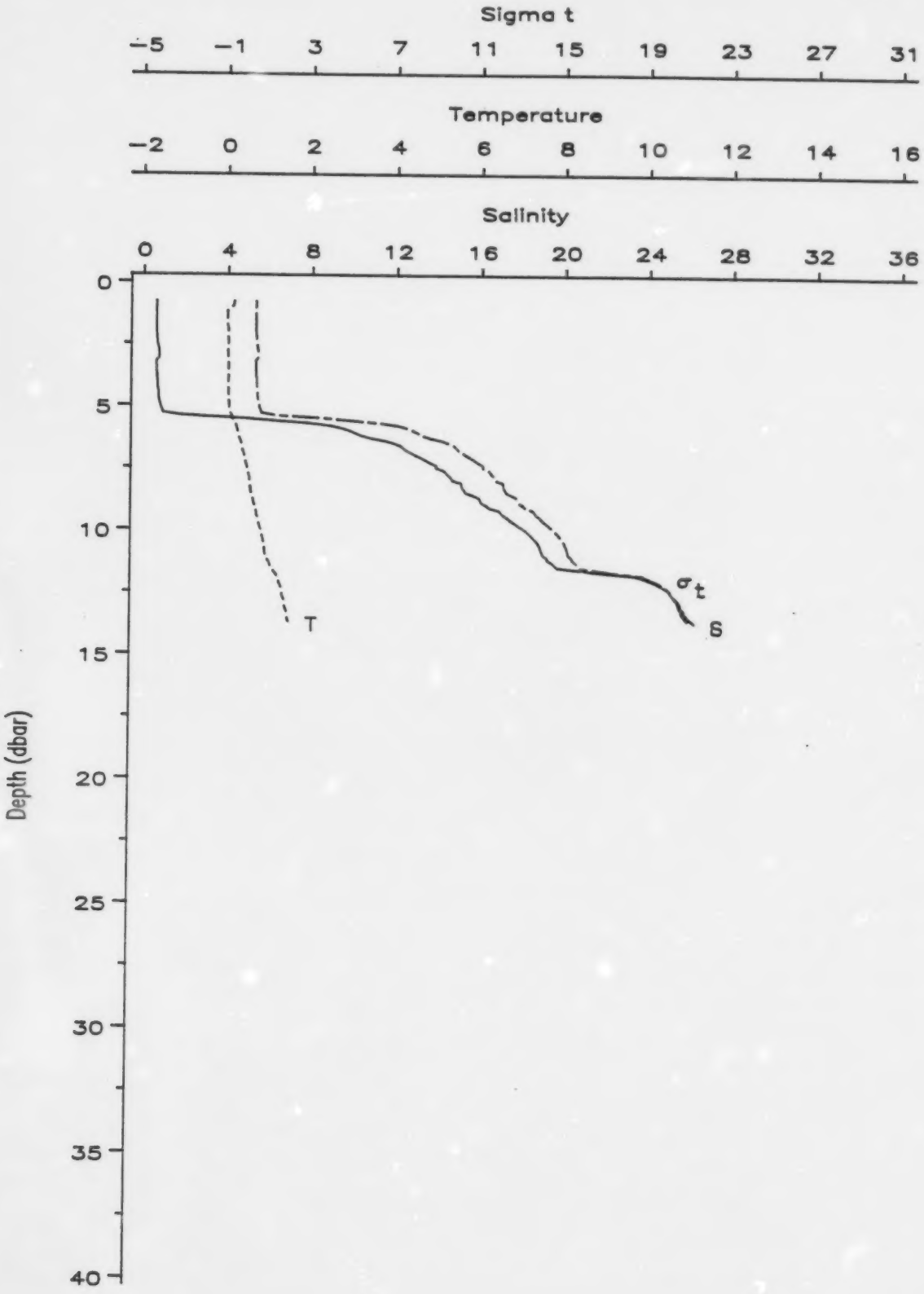

Table A7.3. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86T08, March 12, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.8	0.60	0.15	1000.34	5.3	0.93	0.06	1000.61	9.6	17.40	0.74	1013.92
1.0	0.59	0.12	1000.33	5.4	1.77	0.09	1001.30	9.8	17.75	0.76	1014.20
1.1	0.58	0.03	1000.32	5.5	4.41	0.11	1003.44	10.0	18.11	0.80	1014.49
1.2	0.59	-0.02	1000.33	5.7	7.76	0.16	1006.15	10.2	18.37	0.83	1014.70
1.4	0.59	-0.02	1000.33	5.8	8.87	0.21	1007.05	10.4	18.60	0.86	1014.88
1.5	0.58	-0.02	1000.32	5.9	9.41	0.22	1007.49	10.5	18.70	0.87	1014.96
1.6	0.59	-0.02	1000.33	6.0	9.79	0.24	1007.79	10.6	18.76	0.87	1015.01
1.7	0.59	-0.02	1000.33	6.2	10.35	0.27	1008.24	10.7	18.82	0.89	1015.06
1.9	0.59	0.00	1000.33	6.3	10.79	0.28	1008.60	11.0	18.95	0.91	1015.16
2.0	0.60	0.00	1000.33	6.4	11.42	0.31	1009.11	11.1	19.14	0.94	1015.31
2.2	0.62	0.00	1000.35	6.5	11.86	0.33	1009.46	11.2	19.17	0.96	1015.34
2.5	0.65	0.01	1000.38	6.6	12.17	0.35	1009.71	11.3	19.37	1.00	1015.50
2.6	0.68	0.00	1000.40	6.8	12.47	0.36	1009.95	11.5	19.66	1.04	1015.73
2.7	0.71	0.00	1000.42	7.0	12.93	0.40	1010.32	11.6	20.76	1.09	1016.61
2.8	0.73	0.00	1000.44	7.2	13.42	0.43	1010.72	11.7	21.74	1.12	1017.39
3.0	0.73	0.00	1000.44	7.3	13.61	0.44	1010.87	11.8	23.34	1.18	1018.67
3.1	0.73	0.01	1000.44	7.4	13.88	0.46	1011.09	12.0	24.02	1.21	1019.22
3.2	0.59	0.01	1000.33	7.5	13.88	0.47	1011.09	12.1	24.33	1.24	1019.47
3.3	0.59	0.01	1000.33	7.6	14.23	0.48	1011.37	12.2	24.54	1.26	1019.63
3.4	0.60	0.01	1000.34	7.9	14.60	0.53	1011.67	12.3	24.78	1.29	1019.83
3.6	0.60	0.01	1000.34	8.0	14.65	0.53	1011.71	12.4	24.94	1.30	1019.95
3.7	0.61	0.01	1000.34	8.1	15.06	0.54	1012.04	12.6	25.09	1.32	1020.07
3.8	0.62	0.01	1000.35	8.3	15.12	0.55	1012.09	12.7	25.22	1.33	1020.18
3.9	0.64	0.01	1000.37	8.4	15.20	0.56	1012.15	12.8	25.36	1.36	1020.29
4.1	0.65	0.00	1000.38	8.5	15.30	0.57	1012.23	12.9	25.45	1.37	1020.36
4.3	0.67	0.01	1000.39	8.6	15.62	0.59	1012.49	13.1	25.52	1.38	1020.41
4.4	0.70	0.01	1000.42	8.7	15.90	0.61	1012.71	13.2	25.67	1.40	1020.53
4.6	0.70	0.01	1000.42	8.9	16.02	0.63	1012.81	13.3	25.66	1.42	1020.52
4.7	0.71	0.02	1000.43	9.0	16.25	0.65	1013.00	13.4	25.77	1.43	1020.61
4.8	0.73	0.02	1000.44	9.1	16.39	0.66	1013.11	13.6	26.01	1.45	1020.80
4.9	0.77	0.03	1000.48	9.2	16.84	0.69	1013.47	13.7	26.15	1.47	1020.92
5.1	0.83	0.03	1000.52	9.4	17.07	0.70	1013.65				
5.2	0.88	0.04	1000.57	9.5	17.26	0.73	1013.81				

STATION: 86T04 DATE: 13 March 1986

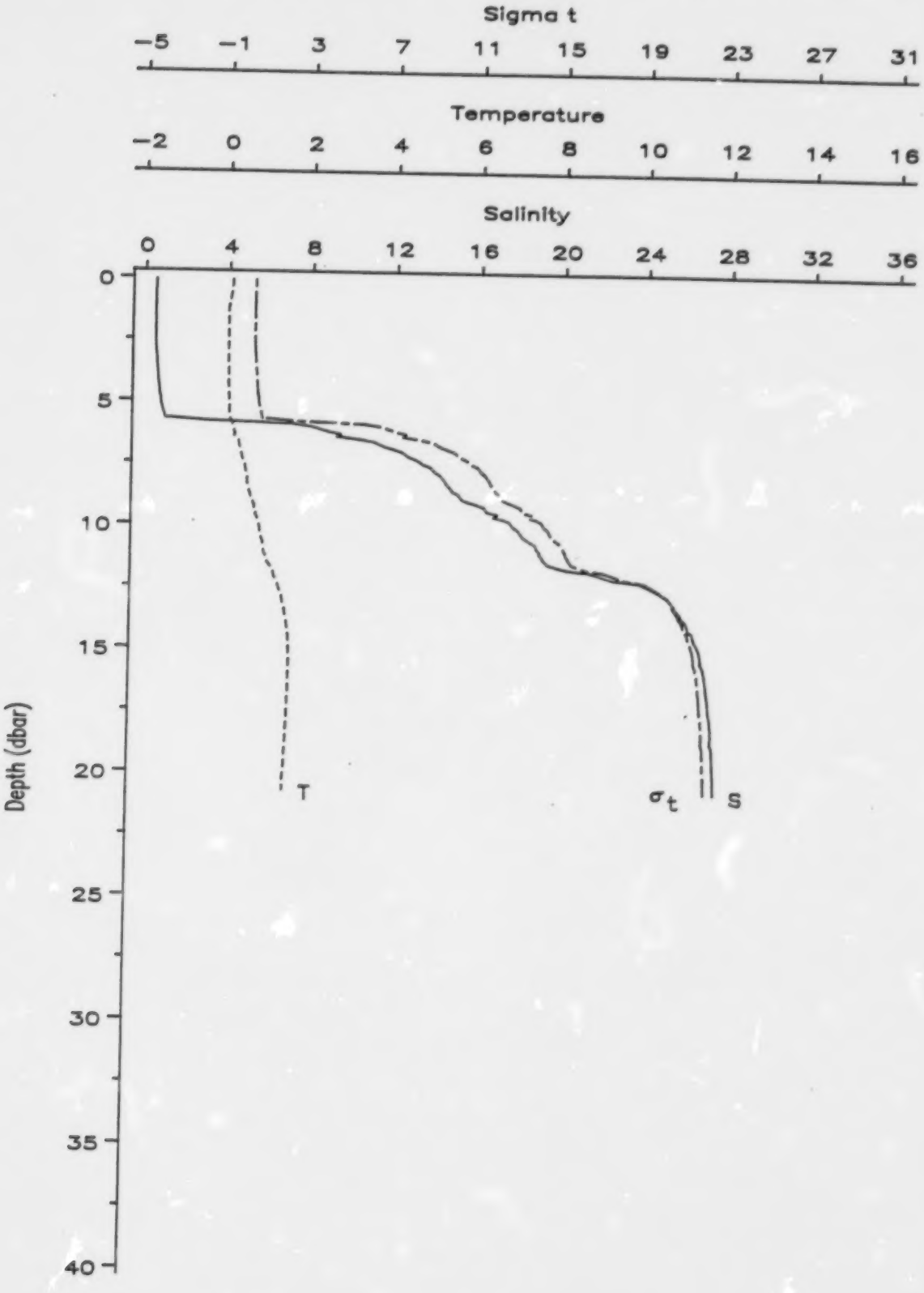

Table A7.4. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86T04, March 13, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	0.49	0.07	1000.25	6.6	10.97	0.26	1008.74	12.8	25.06	1.33	1020.05
0.2	0.49	0.07	1000.25	6.8	11.49	0.28	1009.16	12.9	25.17	1.34	1020.14
0.4	0.49	0.06	1000.25	6.9	11.88	0.30	1009.48	13.1	25.34	1.36	1020.27
0.5	0.48	0.06	1000.24	7.0	12.28	0.32	1009.80	13.2	25.39	1.37	1020.31
0.7	0.48	0.03	1000.24	7.2	12.62	0.34	1010.07	13.3	25.50	1.39	1020.40
1.0	0.48	0.01	1000.24	7.3	12.93	0.36	1010.32	13.4	25.62	1.41	1020.49
1.1	0.48	-0.01	1000.24	7.4	13.17	0.38	1010.52	13.6	25.73	1.42	1020.58
1.2	0.47	-0.02	1000.23	7.5	13.31	0.40	1010.63	13.7	25.87	1.45	1020.69
1.5	0.47	-0.03	1000.23	7.6	13.66	0.42	1010.91	13.8	25.96	1.45	1020.76
1.6	0.48	-0.02	1000.24	7.8	13.88	0.44	1011.09	14.1	26.07	1.48	1020.85
1.7	0.48	-0.02	1000.24	7.9	14.08	0.46	1011.25	14.2	26.25	1.49	1020.99
1.9	0.48	-0.02	1000.24	8.1	14.30	0.48	1011.43	14.4	26.32	1.50	1021.05
2.0	0.47	-0.02	1000.23	8.3	14.45	0.48	1011.55	14.5	26.34	1.51	1021.07
2.1	0.47	-0.02	1000.23	8.4	14.55	0.50	1011.63	14.7	26.48	1.52	1021.18
2.2	0.48	-0.02	1000.24	8.5	14.65	0.51	1011.71	14.8	26.54	1.52	1021.23
2.3	0.48	-0.02	1000.24	8.6	14.73	0.52	1011.77	14.9	26.59	1.52	1021.27
2.5	0.48	-0.02	1000.24	8.7	14.99	0.54	1011.98	15.0	26.62	1.52	1021.29
2.6	0.49	-0.02	1000.24	8.9	15.16	0.57	1012.12	15.3	26.68	1.53	1021.34
2.8	0.50	-0.02	1000.25	9.0	15.43	0.61	1012.34	15.4	26.67	1.53	1021.33
3.0	0.51	-0.02	1000.26	9.1	15.84	0.62	1012.67	15.5	26.72	1.53	1021.37
3.1	0.53	-0.02	1000.28	9.2	16.19	0.65	1012.95	15.6	26.79	1.53	1021.42
3.3	0.55	-0.02	1000.29	9.4	16.37	0.66	1013.09	15.9	26.87	1.52	1021.49
3.4	0.56	-0.02	1000.30	9.5	16.87	0.70	1013.49	16.0	26.89	1.52	1021.51
3.7	0.58	-0.01	1000.32	9.6	16.67	0.68	1013.33	16.3	26.95	1.52	1021.55
3.9	0.62	-0.01	1000.35	9.7	17.16	0.72	1013.73	16.4	26.96	1.52	1021.56
4.1	0.63	0.00	1000.36	9.8	17.45	0.75	1013.96	16.5	26.97	1.52	1021.57
4.2	0.64	-0.01	1000.37	10.0	17.63	0.77	1014.10	16.6	26.98	1.52	1021.58
4.3	0.66	-0.01	1000.38	10.1	17.83	0.79	1014.26	16.8	27.03	1.52	1021.62
4.4	0.67	0.00	1000.39	10.4	18.08	0.80	1014.46	16.9	27.03	1.51	1021.62
4.6	0.69	0.00	1000.41	10.5	18.25	0.82	1014.60	17.0	27.05	1.51	1021.63
4.7	0.70	0.00	1000.42	10.6	18.45	0.85	1014.76	17.3	27.08	1.51	1021.66
4.8	0.73	0.01	1000.44	10.7	18.68	0.87	1014.94	17.4	27.09	1.51	1021.67
4.9	0.76	0.01	1000.47	10.9	18.77	0.88	1015.02	17.5	27.11	1.50	1021.68
5.1	0.77	0.01	1000.47	11.0	18.89	0.89	1015.11	17.6	27.14	1.50	1021.71
5.2	0.81	0.02	1000.51	11.1	18.89	0.90	1015.11	17.7	27.16	1.50	1021.72
5.3	0.83	0.02	1000.52	11.2	18.99	0.93	1015.19	18.0	27.19	1.49	1021.75
5.4	0.87	0.02	1000.56	11.3	19.06	0.94	1015.25	18.1	27.22	1.49	1021.77
5.5	0.91	0.03	1000.59	11.5	19.29	0.98	1015.43	18.2	27.20	1.48	1021.76
5.7	0.98	0.04	1000.65	11.6	19.67	1.02	1015.74	18.4	27.22	1.48	1021.77
5.8	2.98	0.07	1002.28	11.7	20.13	1.06	1016.10	18.5	27.20	1.48	1021.76
5.9	7.07	0.10	1005.59	11.8	21.24	1.11	1016.99	18.7	27.20	1.47	1021.76
6.0	7.98	0.11	1006.33	12.1	22.48	1.15	1017.99	18.8	27.26	1.47	1021.80
6.2	8.81	0.14	1007.00	12.2	23.67	1.20	1018.94	19.0	27.29	1.46	1021.83
6.3	9.42	0.17	1007.49	12.4	24.21	1.24	1019.37	19.1	27.28	1.46	1021.82
6.4	9.24	0.15	1007.35	12.6	24.67	1.27	1019.74	19.2	27.30	1.45	1021.84
6.5	10.24	0.22	1008.15	12.7	24.86	1.30	1019.89	19.4	27.30	1.45	1021.84

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Table A7.4. Station 86T04 continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
19.6	27.32	1.45	1021.85	20.0	27.34	1.43	1021.87	20.3	27.35	1.42	1021.88
19.7	27.32	1.45	1021.85	20.1	27.35	1.43	1021.88	20.5	27.36	1.42	1021.89
19.9	27.33	1.44	1021.86	20.2	27.35	1.42	1021.88	20.7	27.37	1.42	1021.90

STATION: 86T09 DATE: 14 March 1986

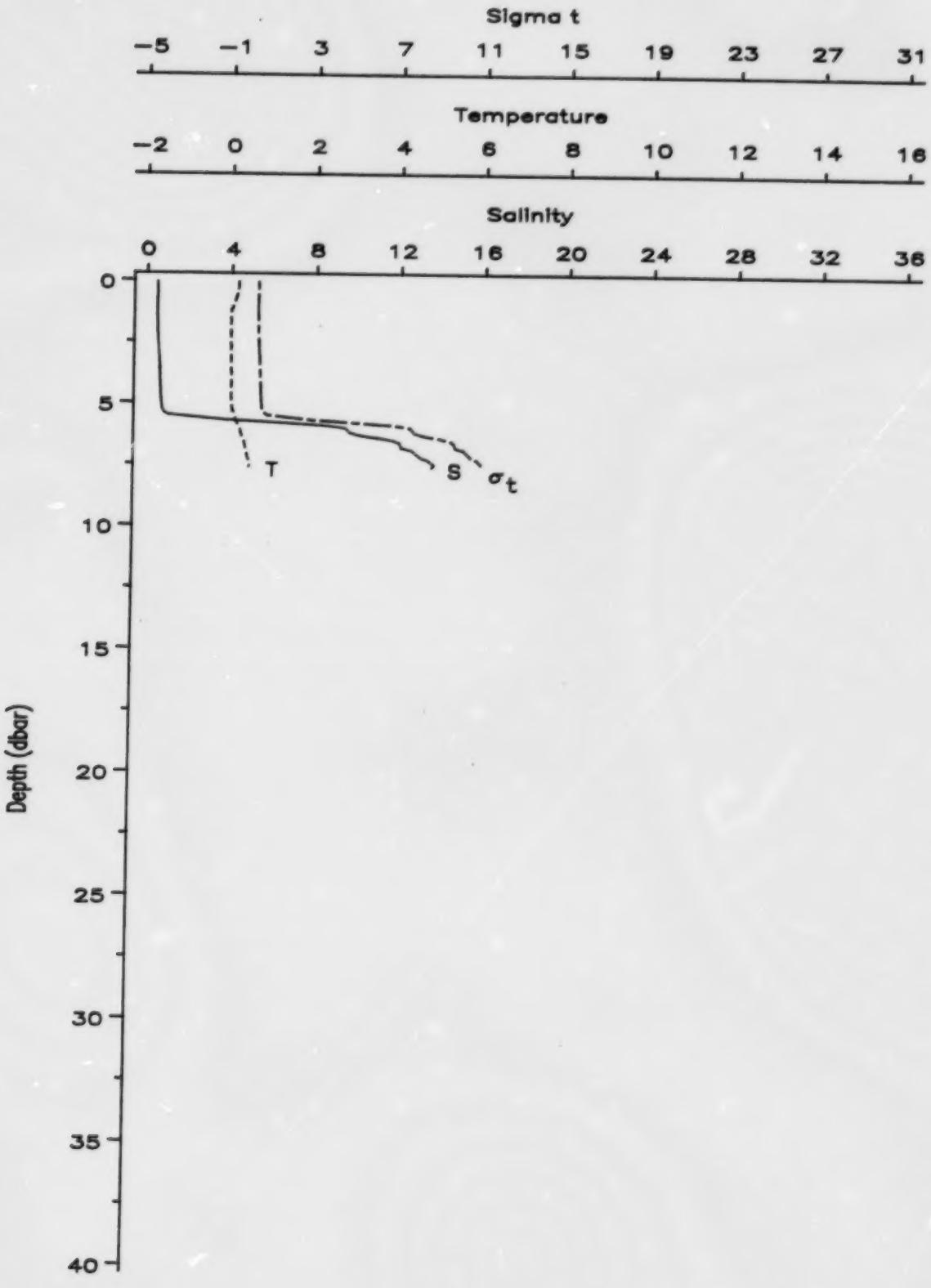

Table A7.5. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86T09, March 14, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	0.48	0.16	1000.25	3.1	0.59	-0.01	1000.33	5.4	0.85	0.06	1000.54
0.4	0.49	0.15	1000.25	3.2	0.59	-0.01	1000.33	5.5	1.06	0.08	1000.72
0.5	0.49	0.15	1000.25	3.3	0.60	-0.01	1000.33	5.7	3.80	0.11	1002.95
0.7	0.48	0.10	1000.24	3.4	0.61	0.00	1000.34	5.8	6.35	0.14	1005.01
0.8	0.48	0.08	1000.24	3.6	0.62	-0.01	1000.35	5.9	8.47	0.18	1006.73
1.1	0.47	0.03	1000.23	3.7	0.62	-0.01	1000.35	6.0	9.40	0.21	1007.48
1.2	0.47	-0.02	1000.23	3.8	0.62	0.00	1000.35	6.2	9.65	0.23	1007.68
1.4	0.47	-0.02	1000.23	3.9	0.63	0.00	1000.36	6.3	10.13	0.25	1008.07
1.5	0.48	-0.02	1000.24	4.1	0.63	0.00	1000.36	6.4	10.95	0.28	1008.73
1.7	0.49	-0.02	1000.24	4.2	0.65	0.00	1000.38	6.5	11.66	0.31	1009.30
1.9	0.50	-0.02	1000.25	4.3	0.65	0.00	1000.38	6.6	11.96	0.32	1009.54
2.0	0.50	-0.02	1000.25	4.4	0.67	0.00	1000.39	6.8	12.06	0.34	1009.62
2.1	0.50	-0.02	1000.25	4.6	0.67	0.00	1000.39	6.9	12.54	0.36	1010.01
2.2	0.51	-0.02	1000.26	4.8	0.69	0.00	1000.41	7.2	12.98	0.39	1010.36
2.5	0.53	-0.02	1000.28	4.9	0.70	0.01	1000.42	7.3	13.31	0.42	1010.63
2.6	0.55	-0.02	1000.29	5.1	0.73	0.01	1000.44	7.5	13.62	0.45	1010.88
2.7	0.56	-0.01	1000.30	5.2	0.74	0.02	1000.45	7.6	13.52	0.44	1010.80
3.0	0.57	-0.02	1000.31	5.3	0.77	0.03	1000.48				

STATION: 86T05 DATE: 15 March 1986

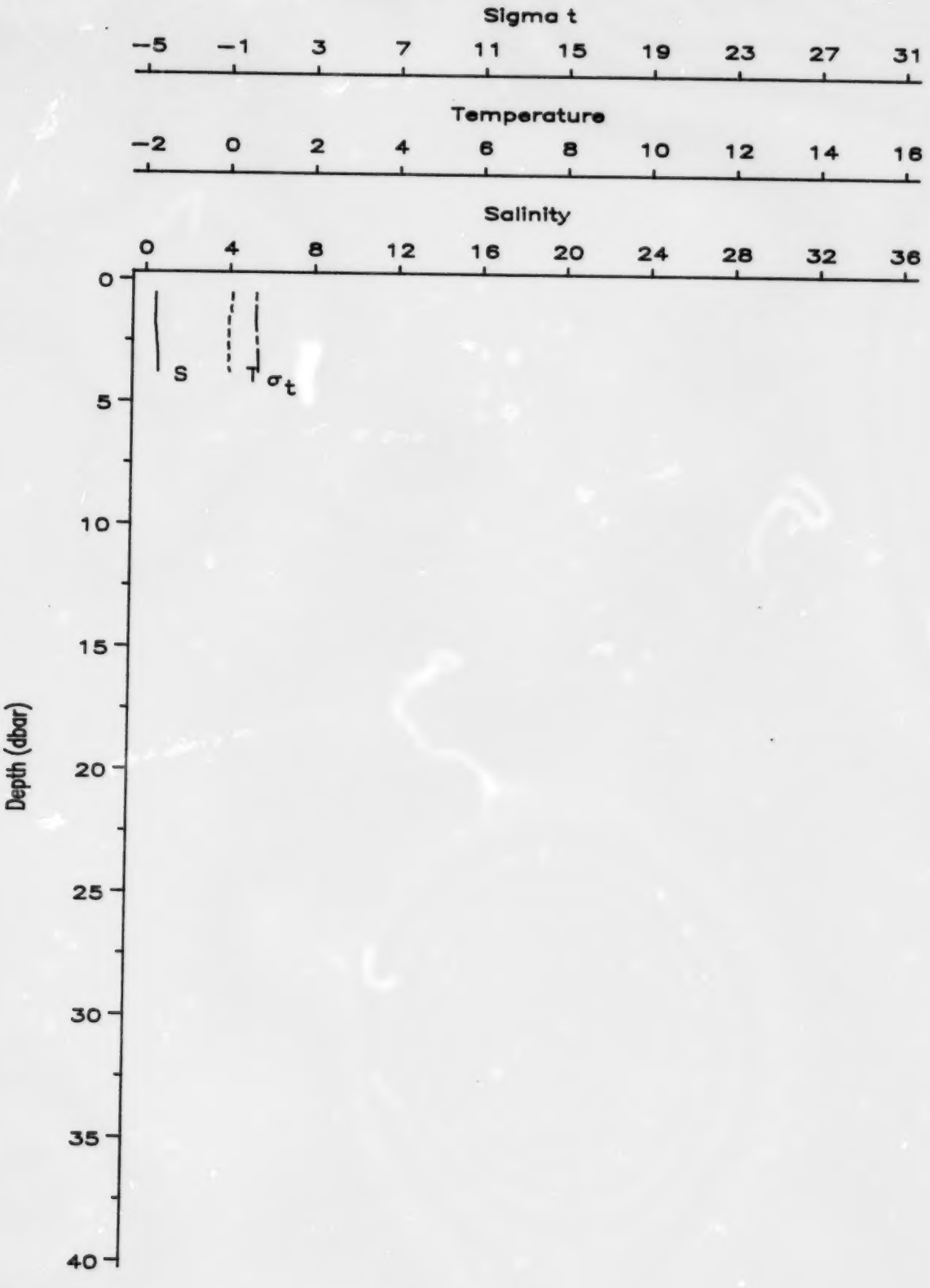

Table A7.6. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86T05, March 15, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.6	0.49	0.07	1000.25	1.9	0.48	-0.02	1000.24	3.1	0.61	-0.02	1000.34
0.8	0.48	0.06	1000.24	2.0	0.50	-0.02	1000.25	3.2	0.61	-0.02	1000.34
1.1	0.48	0.05	1000.24	2.1	0.51	-0.02	1000.26	3.3	0.61	-0.01	1000.34
1.2	0.48	0.02	1000.24	2.3	0.54	-0.02	1000.28	3.4	0.62	-0.04	1000.35
1.4	0.47	0.05	1000.23	2.6	0.56	-0.02	1000.30	3.6	0.62	-0.02	1000.35
1.5	0.47	0.02	1000.23	2.7	0.58	-0.03	1000.32	3.7	0.62	-0.01	1000.35
1.6	0.47	-0.02	1000.23	2.8	0.59	-0.02	1000.33	3.8	0.62	0.01	1000.35
1.7	0.46	-0.02	1000.22	3.0	0.60	-0.02	1000.33				

STATION: 86M07 DATE: 17 March 1986

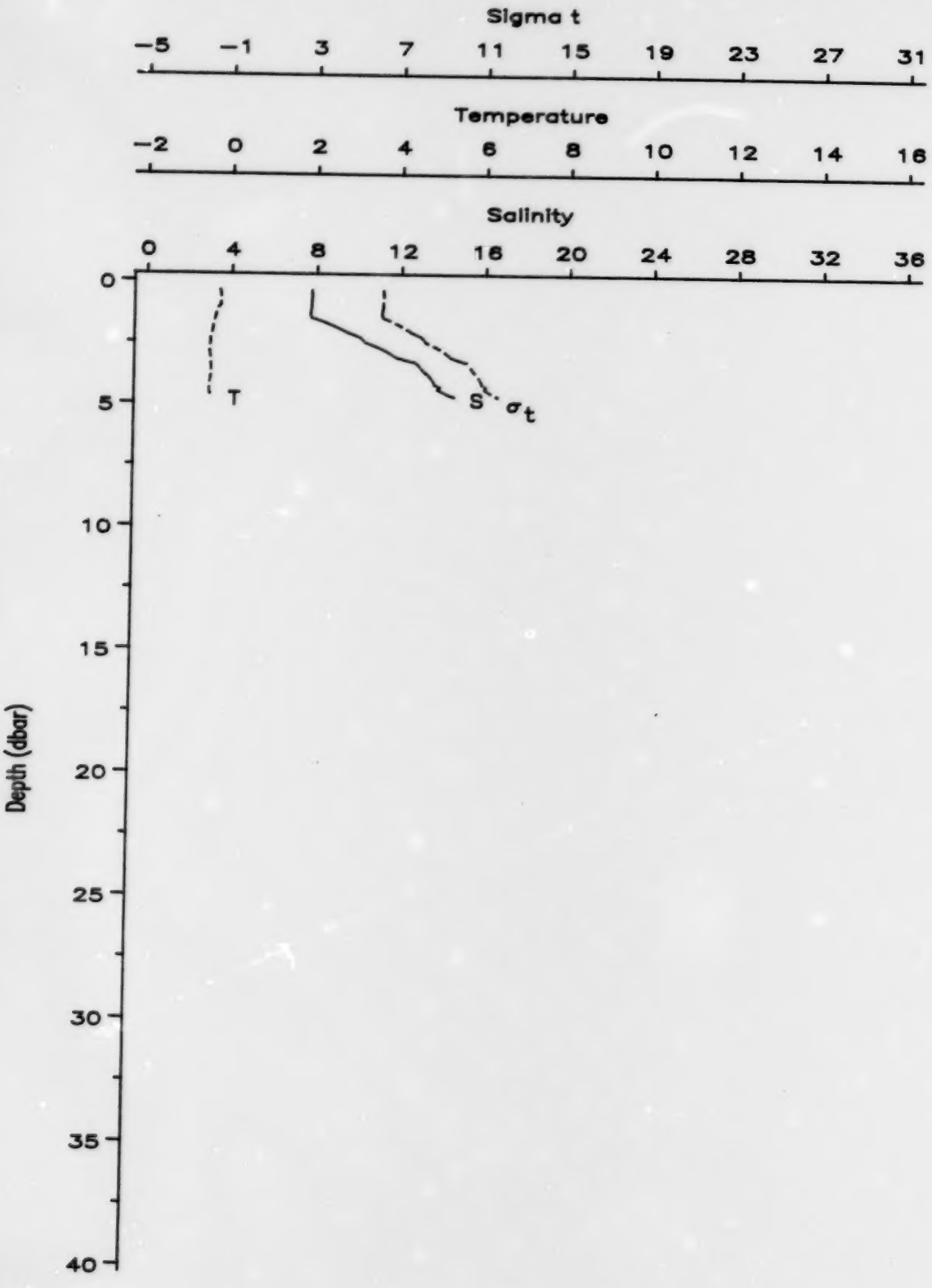

Table A7.7. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86M07, March 17, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.4	7.77	-0.28	1006.14	2.1	9.45	-0.46	1007.49	3.7	13.13	-0.49	1010.47
0.5	7.76	-0.27	1006.14	2.2	9.79	-0.48	1007.77	3.8	13.27	-0.50	1010.58
0.6	7.78	-0.26	1006.15	2.3	10.07	-0.50	1007.99	3.9	13.38	-0.49	1010.67
0.8	7.76	-0.27	1006.14	2.5	10.30	-0.50	1008.18	4.1	13.55	-0.51	1010.81
1.0	7.74	-0.26	1006.12	2.6	10.64	-0.51	1008.45	4.2	13.58	-0.52	1010.83
1.1	7.75	-0.31	1006.13	2.8	11.20	-0.53	1008.91	4.3	13.85	-0.53	1011.05
1.2	7.72	-0.34	1006.10	3.1	11.77	-0.50	1009.37	4.4	13.74	-0.53	1010.96
1.4	7.70	-0.38	1006.08	3.2	12.19	-0.49	1009.71	4.6	14.22	-0.52	1011.35
1.5	7.76	-0.39	1006.13	3.3	12.67	-0.49	1010.10	4.7	14.53	-0.46	1011.60
1.7	8.44	-0.42	1006.68	3.4	12.81	-0.49	1010.21				
2.0	9.23	-0.45	1007.32	3.6	13.01	-0.48	1010.37				

STATION: 86M08 DATE: 18 March 1986

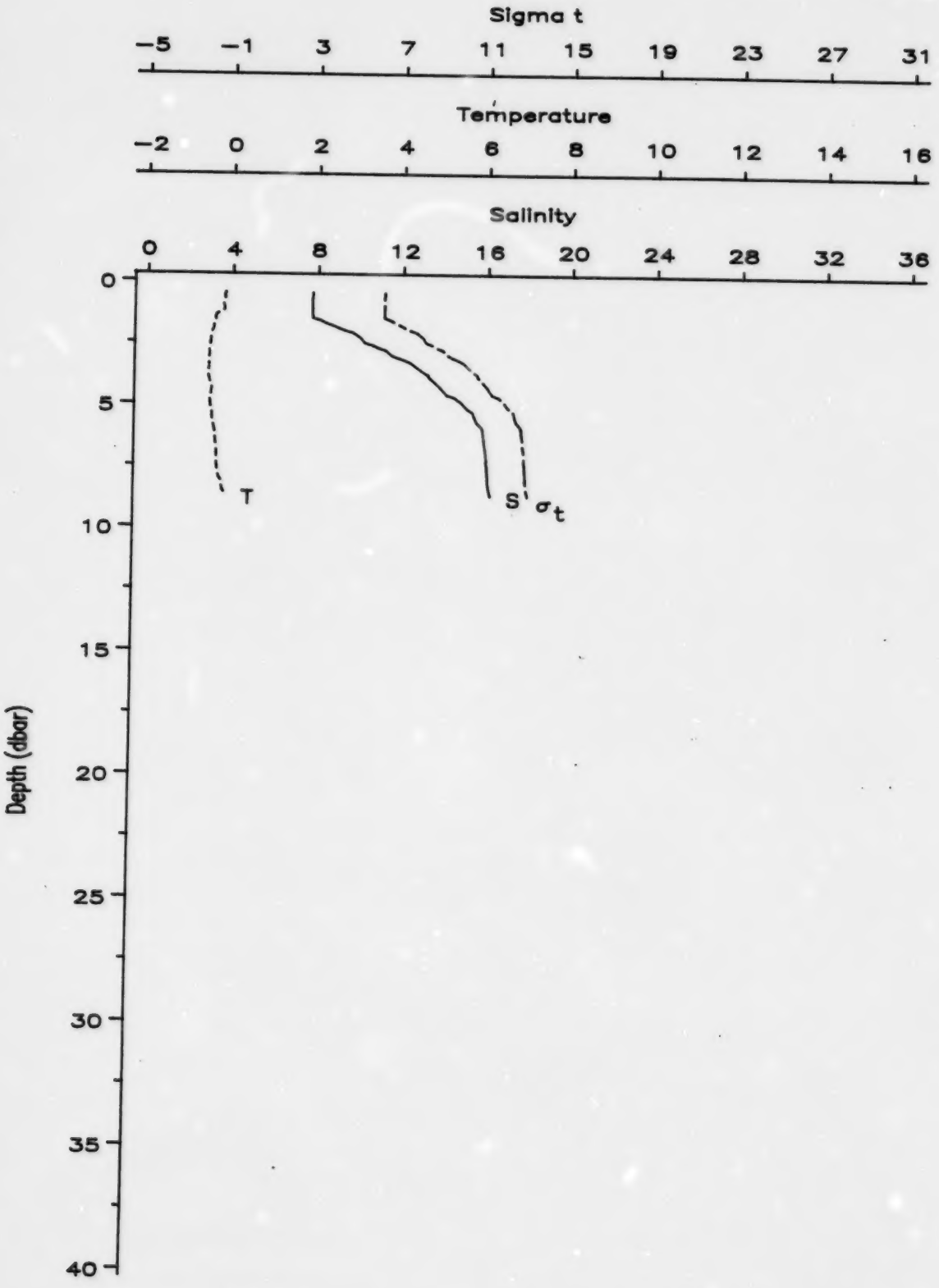

Table A7.8. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86M08, March 18, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.5	7.75	-0.17	1006.13	3.2	12.08	-0.55	1009.62	6.2	15.81	-0.40	1012.63
0.6	7.74	-0.20	1006.12	3.3	12.34	-0.55	1009.83	6.4	15.85	-0.39	1012.67
0.7	7.73	-0.18	1006.11	3.6	12.83	-0.56	1010.22	6.6	15.87	-0.38	1012.68
0.8	7.71	-0.24	1006.10	3.8	13.18	-0.56	1010.51	6.8	15.91	-0.36	1012.71
1.1	7.73	-0.20	1006.11	3.9	13.25	-0.56	1010.56	7.0	15.94	-0.36	1012.74
1.2	7.72	-0.20	1006.11	4.1	13.53	-0.53	1010.79	7.2	15.97	-0.36	1012.76
1.4	7.74	-0.39	1006.11	4.3	13.77	-0.47	1010.99	7.3	15.97	-0.36	1012.76
1.5	7.75	-0.41	1006.12	4.6	14.08	-0.50	1011.23	7.4	15.97	-0.35	1012.76
1.6	8.11	-0.40	1006.41	4.7	14.46	-0.53	1011.54	7.5	16.00	-0.35	1012.79
1.7	8.37	-0.42	1006.62	4.8	14.61	-0.53	1011.66	7.6	16.00	-0.34	1012.79
2.0	9.24	-0.46	1007.32	4.9	14.77	-0.52	1011.79	7.8	16.03	-0.32	1012.81
2.1	9.66	-0.49	1007.66	5.1	14.98	-0.51	1011.96	8.0	16.05	-0.30	1012.83
2.3	10.00	-0.50	1007.94	5.2	15.12	-0.49	1012.07	8.1	16.04	-0.25	1012.82
2.5	10.20	-0.52	1008.10	5.3	15.31	-0.47	1012.23	8.3	16.08	-0.23	1012.85
2.6	10.59	-0.53	1008.41	5.5	15.39	-0.47	1012.29	8.5	16.12	-0.21	1012.89
2.7	10.81	-0.54	1008.59	5.7	15.49	-0.47	1012.37	8.6	16.15	-0.17	1012.91
2.8	11.18	-0.54	1008.89	5.8	15.62	-0.45	1012.48	8.7	16.19	-0.15	1012.94
3.0	11.46	-0.54	1009.12	5.9	15.73	-0.43	1012.57				
3.1	11.72	-0.55	1009.33	6.0	15.78	-0.42	1012.61				

STATION: 86M09 DATE: 19 March 1986

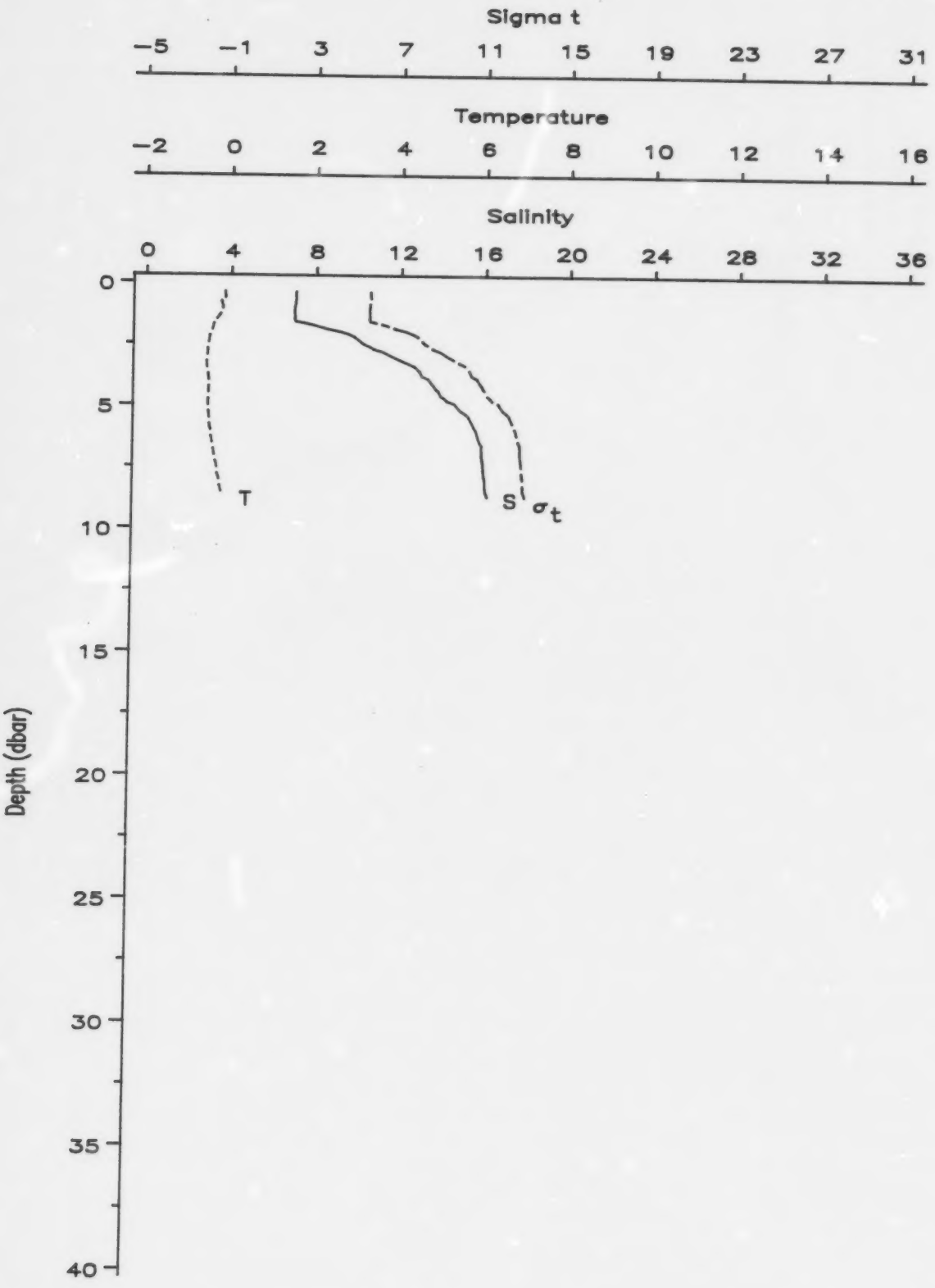

Table A7.9. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86M09, March 19, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.4	7.04	-0.15	1005.56	3.0	11.57	-0.56	1009.20	6.0	15.58	-0.47	1012.45
0.5	7.03	-0.15	1005.55	3.2	12.09	-0.57	1009.62	6.3	15.68	-0.45	1012.53
0.6	7.04	-0.14	1005.56	3.4	12.64	-0.57	1010.07	6.5	15.77	-0.43	1012.60
0.7	7.05	-0.15	1005.57	3.6	12.88	-0.54	1010.26	6.6	15.84	-0.41	1012.66
0.8	7.02	-0.24	1005.54	3.8	13.00	-0.53	1010.36	6.9	15.86	-0.39	1012.67
1.0	6.99	-0.20	1005.52	3.9	13.29	-0.52	1010.60	7.0	15.85	-0.38	1012.67
1.2	6.97	-0.21	1005.50	4.1	13.47	-0.52	1010.74	7.2	15.89	-0.35	1012.70
1.4	6.99	-0.29	1005.51	4.2	13.57	-0.52	1010.82	7.3	15.91	-0.34	1012.72
1.5	6.98	-0.34	1005.50	4.3	13.64	-0.52	1010.88	7.4	15.93	-0.32	1012.73
1.6	7.03	-0.36	1005.54	4.4	13.77	-0.52	1010.98	7.6	15.94	-0.31	1012.74
1.7	7.70	-0.41	1006.08	4.6	13.89	-0.53	1011.08	7.8	15.96	-0.30	1012.76
1.9	8.55	-0.44	1006.77	4.7	14.08	-0.53	1011.23	7.9	15.98	-0.28	1012.77
2.0	9.11	-0.46	1007.22	4.8	14.19	-0.53	1011.32	8.0	16.01	-0.26	1012.80
2.1	9.52	-0.47	1007.55	4.9	14.53	-0.54	1011.60	8.3	16.03	-0.24	1012.81
2.2	9.78	-0.51	1007.76	5.2	14.83	-0.53	1011.84	8.5	16.05	-0.21	1012.83
2.5	10.23	-0.53	1008.12	5.3	15.03	-0.52	1012.00	8.6	16.11	-0.17	1012.88
2.6	10.52	-0.54	1008.36	5.4	15.18	-0.51	1012.12	8.7	16.14	-0.16	1012.90
2.7	10.70	-0.55	1008.50	5.7	15.38	-0.50	1012.28				
2.8	11.11	-0.55	1008.83	5.9	15.50	-0.49	1012.38				

STATION: 86M10 DATE: 20 March 1986

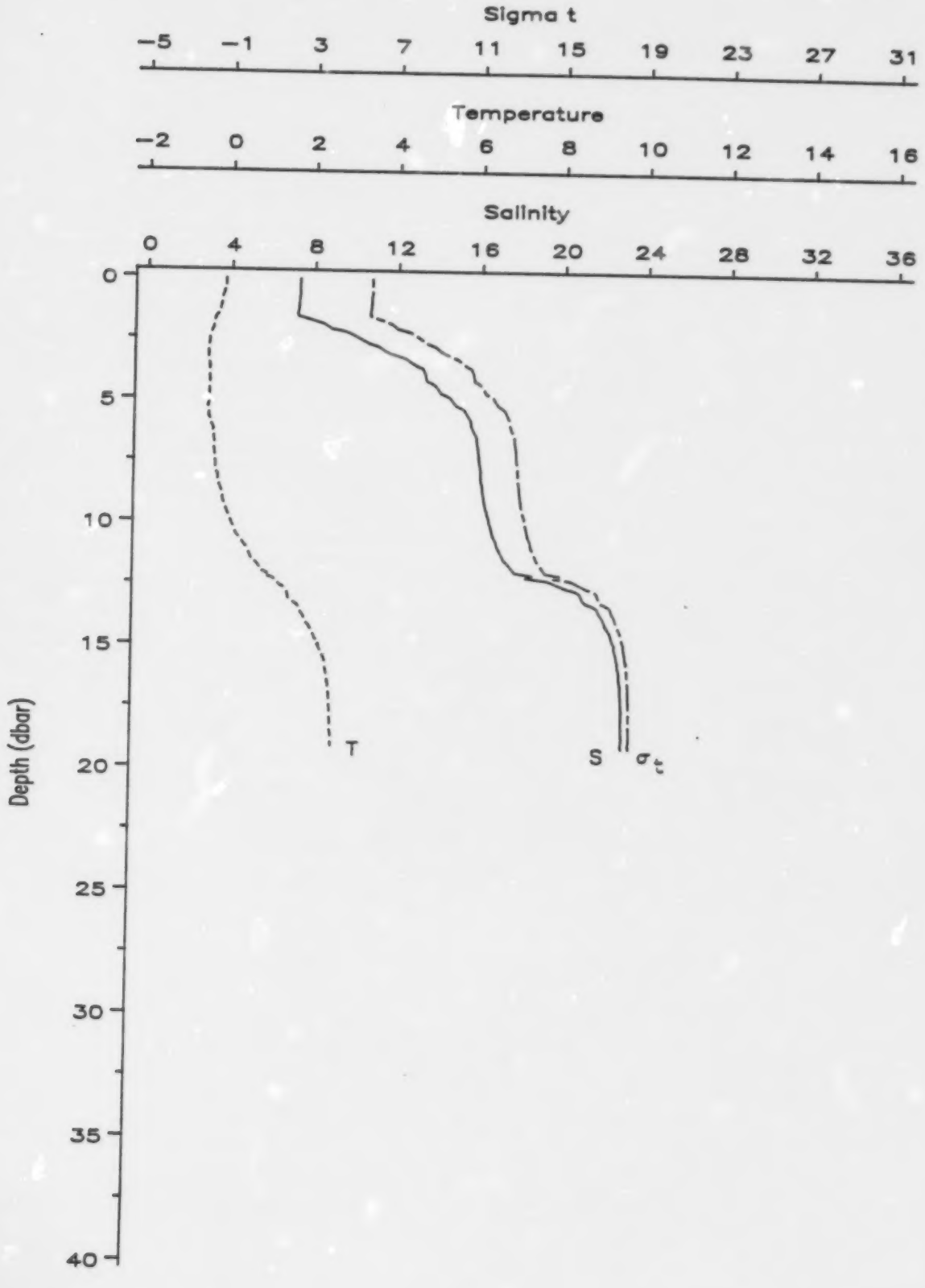

Table A7.10. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86M10, March 20, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	7.28	-0.15	1005.75	6.8	15.84	-0.38	1012.66	13.1	21.00	1.45	1016.79
0.2	7.28	-0.15	1005.75	6.9	15.87	-0.39	1012.68	13.2	21.14	1.52	1016.90
0.4	7.27	-0.15	1005.74	7.0	15.89	-0.39	1012.70	13.3	21.48	1.60	1017.17
0.5	7.26	-0.14	1005.74	7.3	15.92	-0.37	1012.72	13.4	21.69	1.68	1017.34
0.6	7.28	-0.19	1005.75	7.4	15.93	-0.37	1012.73	13.6	21.79	1.73	1017.41
0.7	7.28	-0.20	1005.75	7.6	15.97	-0.35	1012.76	13.8	21.96	1.81	1017.55
0.8	7.25	-0.23	1005.72	7.8	16.00	-0.35	1012.79	14.1	22.11	1.89	1017.66
1.1	7.23	-0.25	1005.71	7.9	16.02	-0.32	1012.80	14.2	22.18	1.95	1017.72
1.2	7.23	-0.27	1005.71	8.0	16.02	-0.32	1012.80	14.4	22.34	2.02	1017.84
1.5	7.17	-0.30	1005.66	8.1	16.03	-0.29	1012.81	14.7	22.45	2.10	1017.93
1.6	7.20	-0.36	1005.68	8.3	16.04	-0.29	1012.82	14.8	22.48	2.14	1017.95
1.7	7.65	-0.40	1006.04	8.4	16.08	-0.27	1012.85	14.9	22.57	2.21	1018.02
1.9	8.44	-0.42	1006.68	8.5	16.10	-0.26	1012.87	15.0	22.54	2.18	1018.00
2.1	8.81	-0.44	1006.98	8.7	16.12	-0.21	1012.89	15.3	22.64	2.26	1018.07
2.2	9.41	-0.47	1007.46	8.9	16.16	-0.16	1012.92	15.5	22.68	2.32	1018.10
2.3	9.75	-0.50	1007.74	9.1	16.20	-0.17	1012.95	15.6	22.72	2.35	1018.13
2.5	10.19	-0.52	1008.09	9.2	16.22	-0.15	1012.97	15.8	22.73	2.36	1018.14
2.7	10.63	-0.53	1008.45	9.4	16.26	-0.11	1013.00	16.0	22.79	2.38	1018.19
2.8	11.04	-0.54	1008.78	9.5	16.32	-0.08	1013.05	16.2	22.81	2.40	1018.20
3.0	11.41	-0.55	1009.08	9.6	16.33	-0.06	1013.06	16.3	22.81	2.42	1018.20
3.1	11.65	-0.55	1009.27	9.7	16.38	-0.03	1013.10	16.4	22.83	2.42	1018.22
3.3	12.36	-0.55	1009.84	9.8	16.42	-0.01	1013.13	16.5	22.85	2.43	1018.23
3.6	12.94	-0.52	1010.31	10.0	16.46	0.04	1013.16	16.6	22.87	2.44	1018.25
3.7	13.20	-0.51	1010.52	10.1	16.51	0.06	1013.20	16.8	22.87	2.45	1018.25
3.9	13.32	-0.52	1010.62	10.2	16.54	0.10	1013.23	16.9	22.87	2.46	1018.25
4.2	13.40	-0.51	1010.69	10.5	16.63	0.16	1013.30	17.0	22.89	2.47	1018.26
4.3	13.66	-0.51	1010.90	10.7	16.76	0.26	1013.41	17.3	22.92	2.48	1018.28
4.4	13.84	-0.51	1011.04	10.9	16.83	0.35	1013.46	17.5	22.93	2.49	1018.29
4.7	14.08	-0.52	1011.23	11.0	16.87	0.40	1013.49	17.6	22.94	2.49	1018.30
4.8	14.36	-0.52	1011.46	11.1	16.95	0.46	1013.56	17.7	22.94	2.50	1018.30
4.9	14.54	-0.52	1011.61	11.3	17.07	0.49	1013.65	18.0	22.93	2.50	1018.29
5.2	14.81	-0.53	1011.82	11.5	17.19	0.55	1013.75	18.1	22.93	2.51	1018.29
5.3	15.08	-0.55	1012.04	11.6	17.33	0.62	1013.86	18.2	22.93	2.51	1018.29
5.4	15.22	-0.51	1012.16	11.8	17.52	0.73	1014.01	18.5	22.95	2.51	1018.31
5.7	15.44	-0.53	1012.33	12.0	17.73	0.79	1014.18	18.6	22.95	2.53	1018.31
5.8	15.51	-0.50	1012.39	12.1	18.58	0.95	1014.86	18.7	22.96	2.53	1018.31
6.0	15.54	-0.47	1012.41	12.2	18.23	0.89	1014.58	18.8	22.96	2.53	1018.31
6.2	15.63	-0.41	1012.49	12.3	19.28	1.08	1015.42	19.0	22.91	2.53	1018.27
6.4	15.76	-0.43	1012.59	12.6	20.17	1.26	1016.13	19.1	22.96	2.53	1018.31
6.5	15.80	-0.39	1012.63	12.7	20.63	1.38	1016.50				
6.6	15.81	-0.40	1012.63	12.8	20.84	1.41	1016.66				

STATION: 86M11 DATE: 21 March 1986

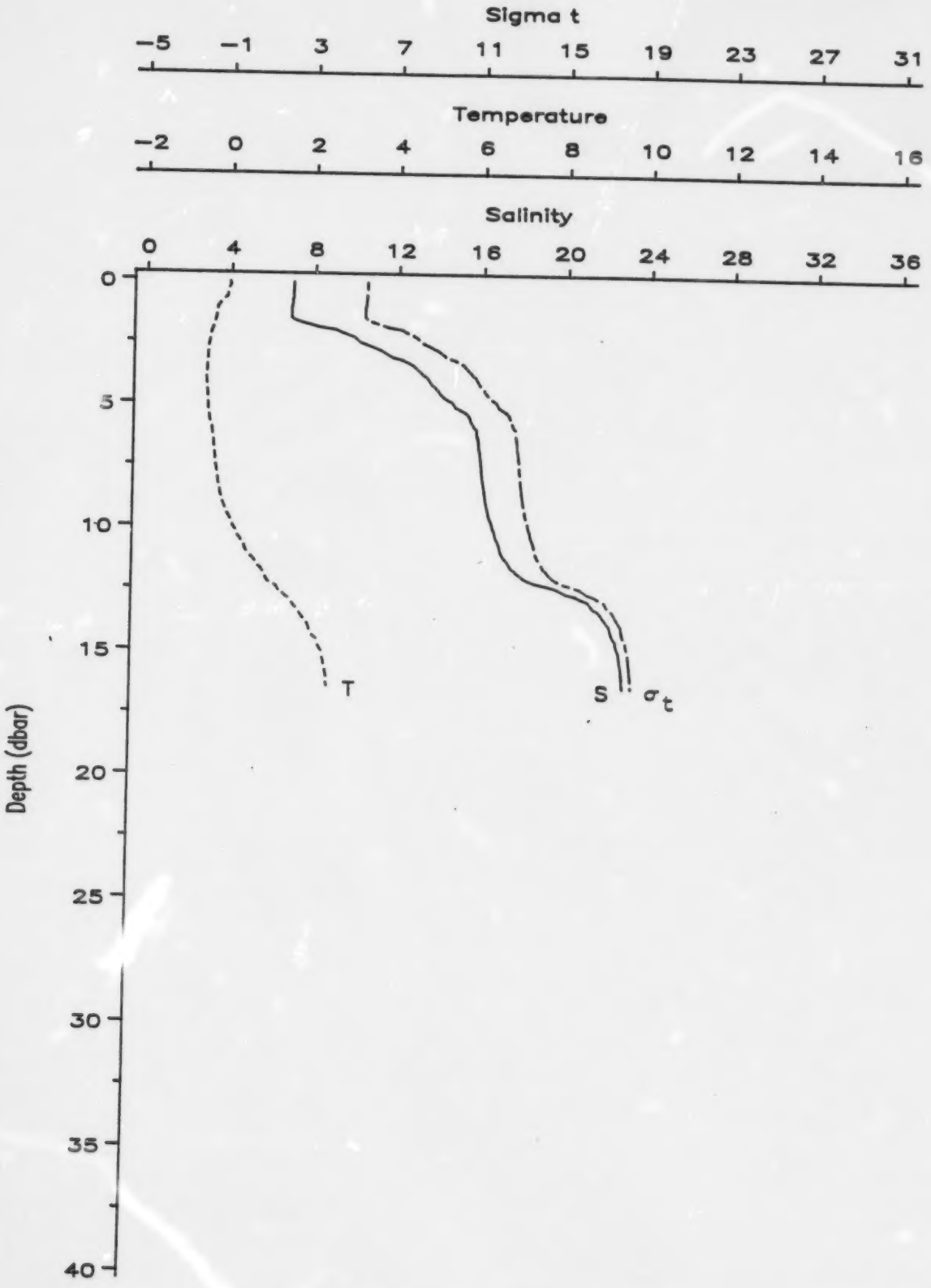

Table A7.11. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86M11, March 21, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	6.96	-0.04	1005.50	5.7	15.46	-0.49	1012.35	11.5	17.36	0.68	1013.89
0.2	6.96	-0.02	1005.50	5.8	15.56	-0.47	1012.43	11.6	17.44	0.72	1013.95
0.4	6.95	-0.08	1005.49	5.9	15.61	-0.45	1012.47	11.7	17.61	0.79	1014.09
0.5	6.94	-0.08	1005.48	6.0	15.73	-0.43	1012.57	11.8	17.73	0.83	1014.18
0.6	6.94	-0.09	1005.48	6.2	15.73	-0.42	1012.57	12.0	18.03	0.88	1014.42
0.7	6.94	-0.10	1005.48	6.3	15.77	-0.41	1012.60	12.1	18.27	0.91	1014.61
0.8	6.91	-0.20	1005.45	6.4	15.80	-0.40	1012.63	12.2	18.57	0.95	1014.86
1.0	6.91	-0.28	1005.45	6.5	15.82	-0.39	1012.64	12.3	19.12	1.05	1015.29
1.1	6.86	-0.33	1005.40	6.8	15.85	-0.38	1012.67	12.4	19.60	1.16	1015.68
1.2	6.86	-0.34	1005.40	6.9	15.88	-0.37	1012.69	12.6	20.05	1.22	1016.04
1.5	6.86	-0.36	1005.40	7.2	15.92	-0.35	1012.72	12.7	20.50	1.32	1016.39
1.6	6.98	-0.38	1005.50	7.3	15.94	-0.35	1012.74	12.8	20.75	1.38	1016.59
1.7	7.33	-0.40	1005.78	7.4	15.94	-0.34	1012.74	12.9	21.08	1.49	1016.85
1.9	8.22	-0.42	1006.50	7.5	15.96	-0.33	1012.76	13.1	21.26	1.54	1017.00
2.0	9.01	-0.45	1007.14	7.6	15.97	-0.32	1012.76	13.2	21.37	1.59	1017.08
2.1	9.28	-0.47	1007.36	7.9	16.01	-0.29	1012.80	13.3	21.59	1.66	1017.26
2.2	9.63	-0.49	1007.64	8.1	16.04	-0.28	1012.82	13.4	21.70	1.68	1017.34
2.3	9.92	-0.50	1007.87	8.3	16.08	-0.26	1012.85	13.6	21.86	1.77	1017.47
2.5	10.19	-0.51	1008.09	8.5	16.12	-0.23	1012.89	13.8	22.05	1.86	1017.62
2.6	10.52	-0.53	1008.36	8.6	16.13	-0.22	1012.89	13.9	22.15	1.91	1017.70
2.8	11.13	-0.54	1008.85	8.7	16.16	-0.21	1012.92	14.1	22.21	1.95	1017.74
3.1	11.71	-0.55	1009.32	9.0	16.21	-0.16	1012.96	14.2	22.24	1.98	1017.76
3.2	12.18	-0.55	1009.70	9.2	16.27	-0.11	1013.01	14.4	22.35	2.04	1017.85
3.4	12.68	-0.56	1010.10	9.4	16.32	-0.06	1013.05	14.5	22.46	2.14	1017.93
3.7	13.07	-0.57	1010.42	9.5	16.35	-0.04	1013.07	14.7	22.48	2.14	1017.95
3.8	13.18	-0.57	1010.51	9.6	16.39	0.00	1013.11	14.9	22.58	2.22	1018.03
3.9	13.37	-0.58	1010.66	9.7	16.44	0.03	1013.15	15.0	22.62	2.26	1018.06
4.2	13.61	-0.57	1010.85	9.8	16.49	0.08	1013.19	15.2	22.65	2.27	1018.08
4.3	13.77	-0.56	1010.98	10.0	16.53	0.10	1013.22	15.3	22.66	2.29	1018.09
4.4	13.87	-0.56	1011.06	10.1	16.61	0.15	1013.28	15.4	22.68	2.31	1018.10
4.6	14.04	-0.55	1011.20	10.4	16.69	0.22	1013.35	15.5	22.71	2.32	1018.12
4.7	14.18	-0.55	1011.31	10.5	16.76	0.28	1013.41	15.6	22.73	2.34	1018.14
4.8	14.36	-0.54	1011.46	10.6	16.81	0.31	1013.45	15.8	22.75	2.36	1018.15
4.9	14.58	-0.54	1011.64	10.7	16.86	0.36	1013.49	15.9	22.77	2.37	1018.17
5.1	14.74	-0.53	1011.77	10.9	16.91	0.40	1013.53	16.0	22.78	2.38	1018.18
5.2	14.95	-0.53	1011.94	11.0	16.95	0.43	1013.56	16.3	22.80	2.38	1018.19
5.3	15.18	-0.53	1012.12	11.1	17.03	0.49	1013.62	16.4	22.82	2.40	1018.21
5.4	15.32	-0.51	1012.24	11.2	17.09	0.53	1013.67				
5.5	15.39	-0.50	1012.29	11.3	17.22	0.60	1013.77				

STATION: 86M12 DATE: 22 March 1986

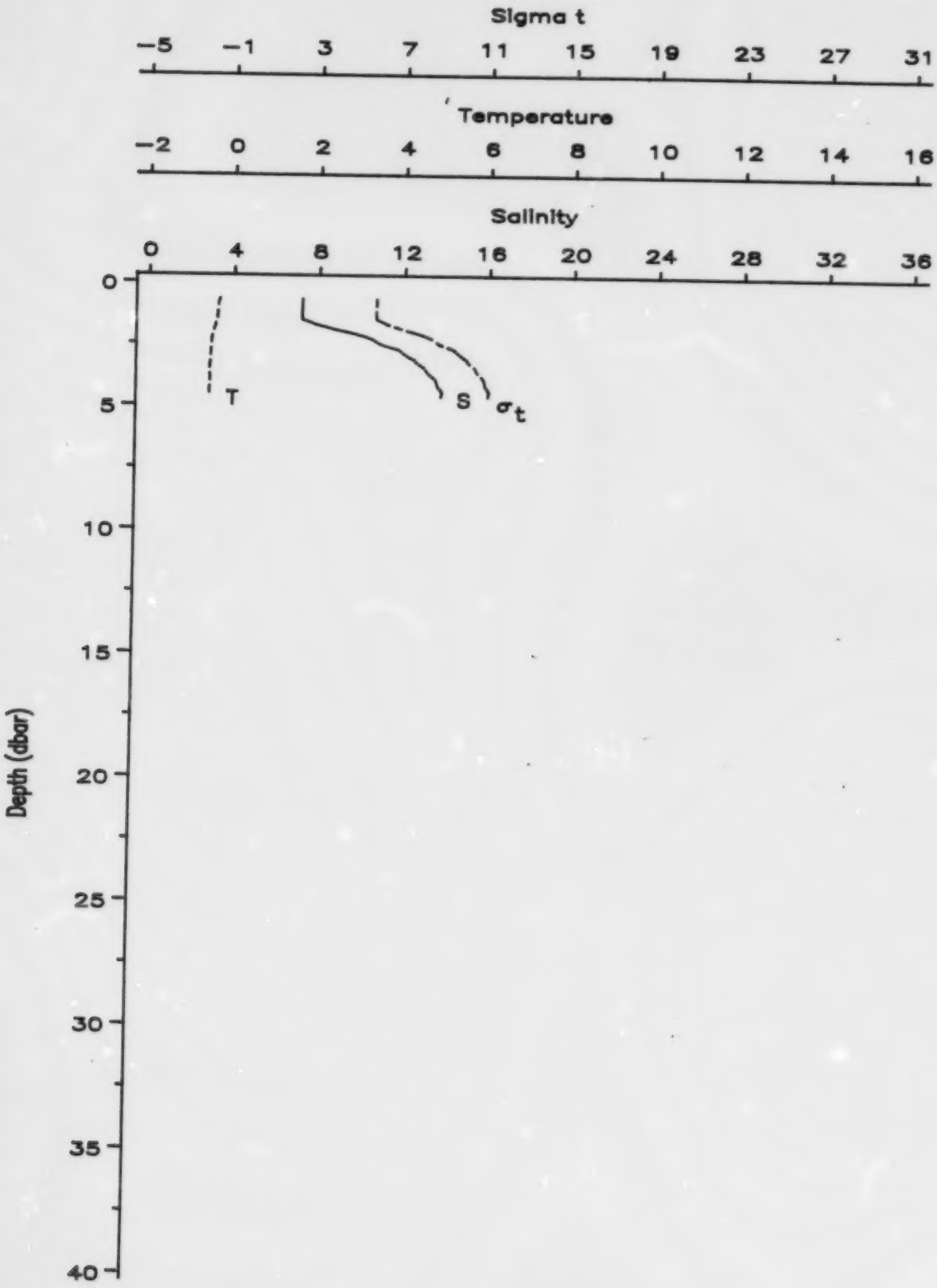

Table A7.12. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86M12, March 22, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.7	7.20	-0.34	1005.68	2.1	9.79	-0.50	1007.77	3.7	13.15	-0.57	1010.48
0.8	7.19	-0.37	1005.67	2.2	10.19	-0.51	1008.09	3.8	13.31	-0.56	1010.61
1.1	7.18	-0.39	1005.66	2.3	10.49	-0.53	1008.33	3.9	13.46	-0.56	1010.73
1.2	7.17	-0.39	1005.65	2.5	10.88	-0.53	1008.65	4.2	13.56	-0.56	1010.81
1.4	7.17	-0.40	1005.65	2.7	11.70	-0.54	1009.31	4.3	13.68	-0.57	1010.91
1.5	7.19	-0.40	1005.67	3.0	12.19	-0.55	1009.71	4.4	13.77	-0.58	1010.98
1.7	7.81	-0.43	1006.17	3.1	12.46	-0.55	1009.92	4.6	13.73	-0.57	1010.95
1.9	8.70	-0.47	1006.89	3.2	12.52	-0.55	1009.97				
2.0	9.23	-0.48	1007.32	3.4	12.89	-0.57	1010.27				

STATION: 86THS DATE: 7 August 1986

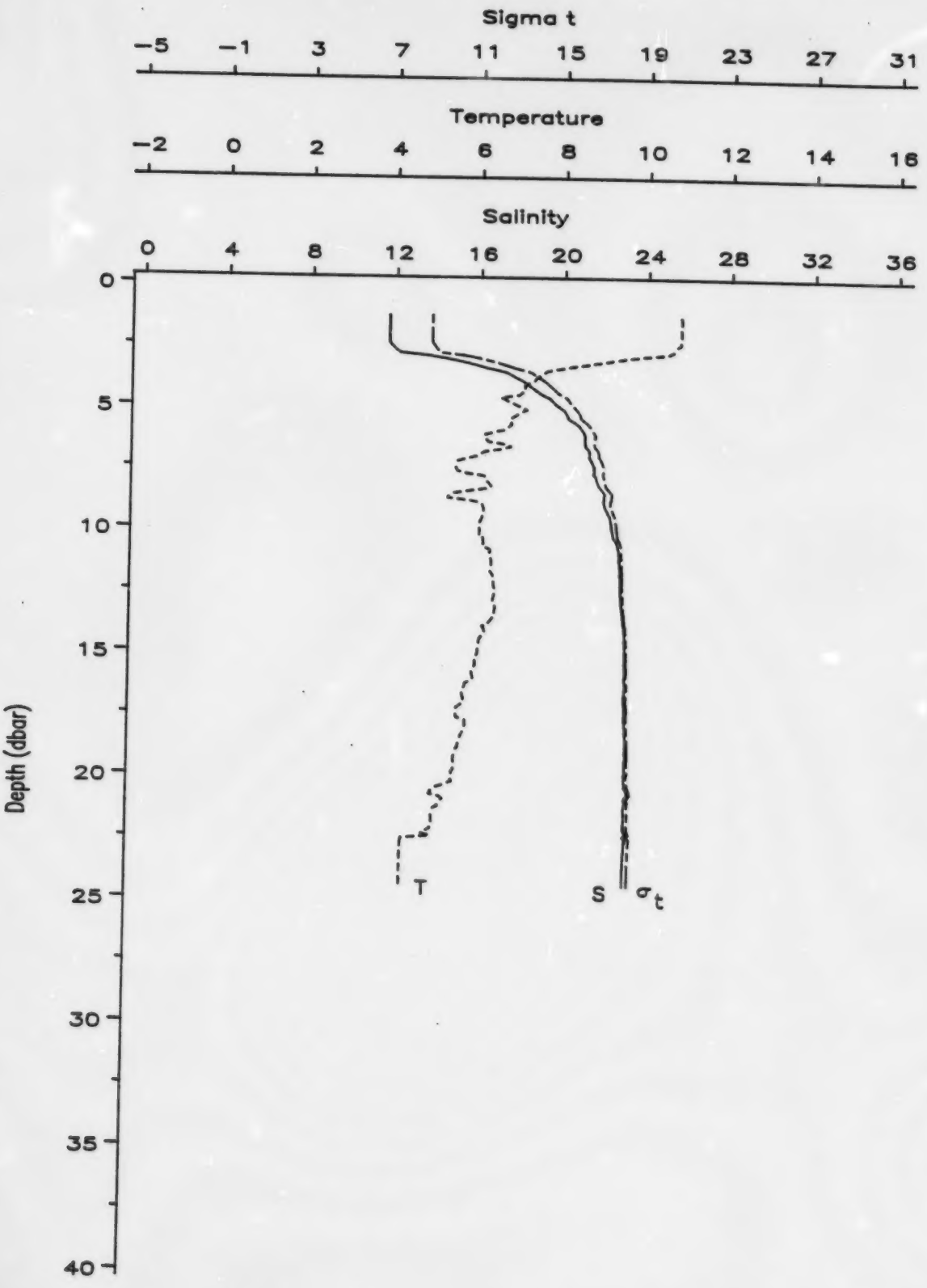

Table A7.13. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86THS, August 7, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.3	11.67	10.78	1008.70	7.7	21.43	5.71	1016.88	13.8	22.95	6.24	1018.02
1.4	11.67	10.79	1008.70	7.8	21.55	6.12	1016.93	13.9	23.00	6.11	1018.08
1.7	11.67	10.79	1008.70	8.0	21.61	6.18	1016.97	14.0	22.99	6.15	1018.06
1.8	11.67	10.78	1008.70	8.2	21.71	6.29	1017.04	14.1	23.01	6.17	1018.08
2.1	11.66	10.79	1008.69	8.3	21.83	6.21	1017.15	14.3	23.03	6.11	1018.10
2.2	11.67	10.78	1008.70	8.5	22.00	5.41	1017.35	14.4	23.03	6.05	1018.11
2.3	11.67	10.78	1008.70	8.6	21.95	5.29	1017.32	14.5	23.01	6.04	1018.09
2.4	11.68	10.77	1008.71	8.7	21.96	5.27	1017.33	14.6	23.05	6.04	1018.12
2.5	11.79	10.68	1008.81	8.8	21.92	5.77	1017.26	14.7	23.04	6.03	1018.12
2.7	12.03	10.60	1009.00	8.9	21.95	6.07	1017.25	14.9	23.05	6.02	1018.12
2.8	12.20	10.46	1009.15	9.1	22.02	6.11	1017.30	15.0	23.03	6.01	1018.11
2.9	13.41	9.86	1010.17	9.2	22.12	6.11	1017.38	15.1	23.04	5.99	1018.12
3.0	14.24	9.40	1010.87	9.3	22.15	6.12	1017.41	15.2	23.05	5.95	1018.13
3.2	15.41	8.70	1011.86	9.4	22.23	6.11	1017.47	15.4	23.04	5.96	1018.12
3.3	15.86	8.28	1012.26	9.6	22.28	6.04	1017.52	15.5	23.04	5.96	1018.12
3.4	16.28	7.95	1012.62	9.8	22.32	6.00	1017.55	15.6	23.05	5.89	1018.14
3.5	16.89	7.61	1013.13	9.9	22.33	6.01	1017.56	15.7	23.07	5.87	1018.15
3.6	17.32	7.51	1013.48	10.0	22.36	6.02	1017.58	16.0	23.03	5.91	1018.12
3.8	17.75	7.34	1013.83	10.2	22.41	6.01	1017.62	16.1	23.05	5.86	1018.14
3.9	17.98	7.30	1014.02	10.3	22.42	6.10	1017.62	16.2	23.07	5.74	1018.17
4.0	18.17	7.19	1014.17	10.4	22.55	6.11	1017.72	16.4	23.07	5.70	1018.17
4.1	18.33	7.07	1014.31	10.6	22.64	6.11	1017.79	16.5	23.06	5.67	1018.17
4.3	18.66	7.07	1014.57	10.7	22.63	6.18	1017.78	16.6	23.05	5.66	1018.16
4.4	18.82	7.01	1014.70	10.8	22.69	6.28	1017.81	16.7	23.04	5.67	1018.15
4.5	19.02	6.93	1014.87	10.9	22.70	6.27	1017.82	16.8	23.02	5.69	1018.13
4.6	19.29	6.49	1015.12	11.1	22.72	6.29	1017.84	17.0	23.03	5.69	1018.14
4.9	19.66	6.87	1015.38	11.2	22.70	6.31	1017.82	17.1	23.06	5.62	1018.17
5.1	20.00	7.12	1015.62	11.3	22.74	6.31	1017.85	17.2	23.07	5.54	1018.19
5.3	20.15	6.89	1015.76	11.4	22.74	6.31	1017.85	17.3	23.07	5.50	1018.19
5.4	20.17	6.79	1015.78	11.5	22.75	6.31	1017.86	17.6	23.05	5.54	1018.17
5.5	20.31	6.71	1015.90	11.7	22.76	6.29	1017.87	17.7	23.05	5.74	1018.15
5.6	20.52	6.75	1016.06	11.8	22.74	6.35	1017.85	17.8	23.09	5.74	1018.18
5.7	20.69	6.76	1016.19	11.9	22.78	6.35	1017.88	17.9	23.08	5.75	1018.17
5.9	20.87	6.62	1016.35	12.0	22.79	6.37	1017.88	18.1	23.11	5.71	1018.20
6.1	21.00	6.14	1016.50	12.2	22.78	6.37	1017.88	18.2	23.10	5.70	1018.19
6.2	20.99	6.11	1016.49	12.3	22.79	6.38	1017.88	18.3	23.11	5.66	1018.21
6.4	21.00	6.21	1016.49	12.4	22.79	6.40	1017.88	18.4	23.13	5.63	1018.22
6.5	21.00	6.61	1016.45	12.5	22.79	6.41	1017.88	18.7	23.13	5.59	1018.23
6.6	21.06	6.75	1016.49	12.6	22.81	6.39	1017.90	18.8	23.12	5.58	1018.22
6.7	21.19	6.51	1016.61	12.8	22.82	6.36	1017.91	18.9	23.14	5.53	1018.24
6.8	21.22	6.13	1016.67	12.9	22.83	6.36	1017.92	19.0	23.13	5.51	1018.24
7.0	21.20	5.93	1016.68	13.0	22.83	6.39	1017.91	19.2	23.15	5.49	1018.25
7.1	21.29	5.69	1016.77	13.1	22.87	6.42	1017.94	19.3	23.13	5.48	1018.24
7.2	21.35	5.47	1016.83	13.3	22.88	6.40	1017.95	19.4	23.12	5.49	1018.23
7.4	21.45	5.43	1016.92	13.4	22.91	6.40	1017.98	19.7	23.12	5.49	1018.23
7.6	21.46	5.49	1016.92	13.5	22.91	6.39	1017.98	19.8	23.15	5.44	1018.26

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Table A7.13. Station 86THS continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
19.9	23.10	5.45	1018.22	20.9	23.11	5.24	1018.24	22.1	23.10	4.96	1018.26
20.1	23.09	5.44	1018.21	21.0	23.16	5.18	1018.29	22.3	23.21	4.75	1018.36
20.2	23.11	5.44	1018.23	21.2	23.10	5.12	1018.25	22.4	23.08	4.97	1018.24
20.3	23.15	5.28	1018.27	21.3	23.09	5.01	1018.25	22.5	23.19	4.28	1018.39
20.4	23.12	5.13	1018.26	21.5	23.11	4.98	1018.27	22.6	23.15	4.26	1018.36
20.5	23.21	4.99	1018.34	21.8	23.11	4.99	1018.27	22.9	23.14	4.25	1018.35
20.7	23.26	4.93	1018.39	21.9	23.09	4.99	1018.25	23.0	23.13	4.25	1018.34
20.8	23.15	5.17	1018.28	22.0	23.10	4.96	1018.26				

STATION: 86THN DATE: 7 August 1986

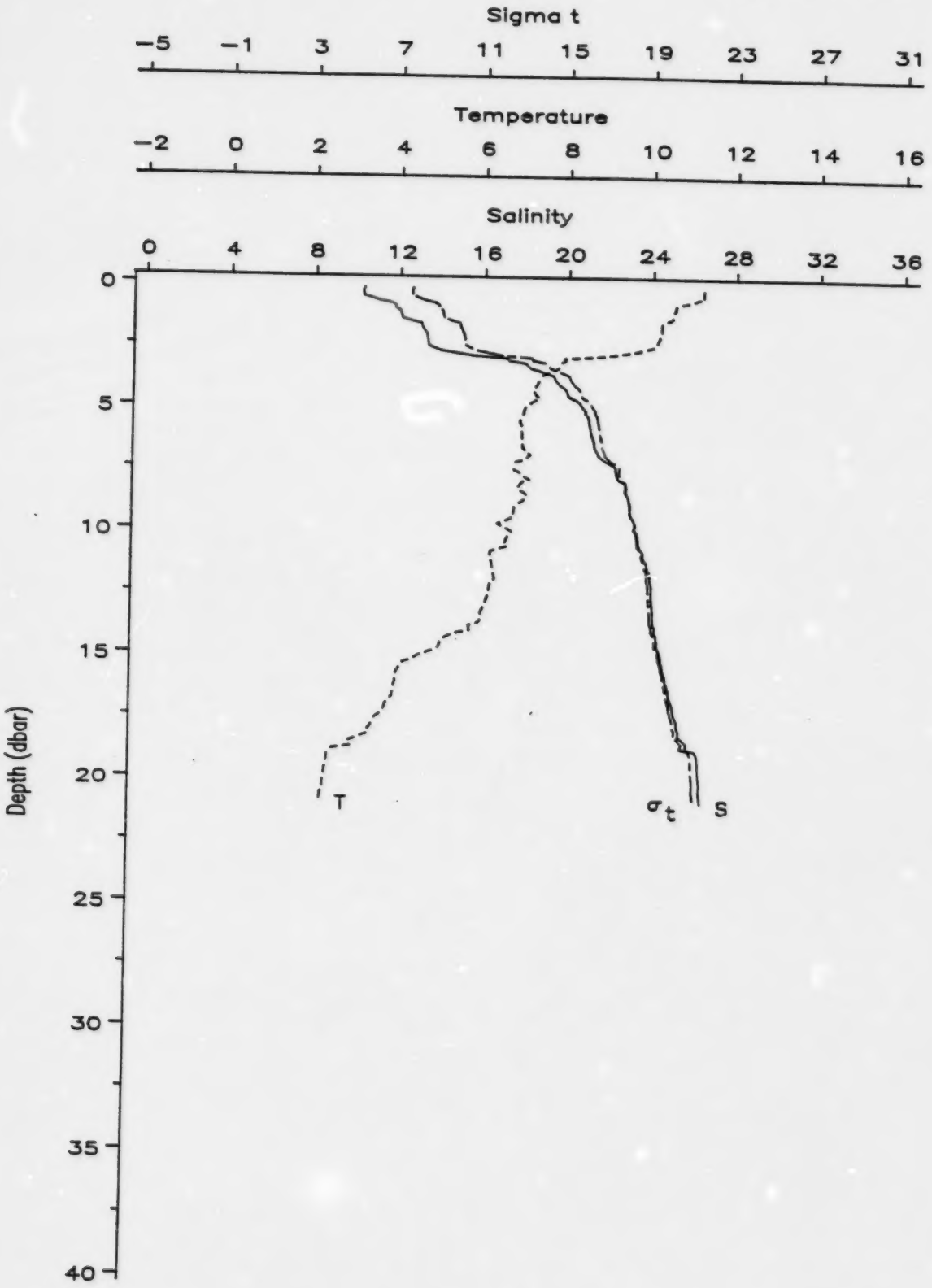

Table A7.14. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86THN, August 7, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	10.30	11.20	1007.59	6.3	21.22	6.94	1016.59	12.2	24.06	6.18	1018.90
0.3	10.24	11.19	1007.54	6.4	21.25	6.93	1016.62	12.4	24.05	6.16	1018.90
0.4	10.25	11.18	1007.55	6.6	21.28	6.93	1016.64	12.5	24.06	6.17	1018.90
0.5	10.25	11.20	1007.55	6.7	21.35	6.98	1016.69	12.6	24.05	6.14	1018.90
0.7	11.04	10.82	1008.21	6.8	21.44	7.02	1016.76	12.7	24.07	6.12	1018.92
0.8	11.61	10.56	1008.68	6.9	21.45	7.12	1016.75	12.9	24.09	6.08	1018.94
0.9	11.78	10.52	1008.82	7.1	21.74	6.96	1017.00	13.1	24.12	6.03	1018.97
1.0	11.78	10.53	1008.82	7.2	21.96	6.76	1017.19	13.2	24.13	6.00	1018.98
1.1	11.99	10.47	1008.99	7.3	22.16	6.76	1017.35	13.3	24.13	5.98	1018.98
1.3	12.07	10.48	1009.05	7.4	22.31	6.76	1017.47	13.5	24.14	5.96	1018.99
1.4	12.10	10.41	1009.08	7.5	22.28	6.73	1017.45	13.6	24.15	5.97	1019.00
1.5	12.49	10.25	1009.41	7.7	22.34	6.95	1017.47	13.7	24.16	5.91	1019.01
1.6	13.00	10.20	1009.81	7.8	22.38	6.99	1017.50	13.8	24.23	5.70	1019.08
1.8	13.08	10.20	1009.87	7.9	22.48	7.10	1017.56	14.0	24.21	5.73	1019.07
1.9	13.17	10.19	1009.94	8.0	22.73	6.93	1017.78	14.1	24.29	5.44	1019.16
2.0	13.25	10.18	1010.00	8.2	22.77	6.83	1017.82	14.2	24.32	5.26	1019.20
2.1	13.28	10.16	1010.03	8.3	22.74	6.84	1017.80	14.4	24.35	5.05	1019.24
2.2	13.30	10.14	1010.05	8.4	22.76	6.95	1017.80	14.6	24.35	5.03	1019.24
2.5	13.37	10.04	1010.11	8.5	22.83	7.03	1017.85	14.7	24.41	5.00	1019.29
2.7	13.93	9.61	1010.60	8.6	22.92	7.02	1017.92	14.8	24.46	4.88	1019.34
2.9	15.42	8.83	1011.85	8.8	22.96	6.92	1017.96	15.0	24.55	4.56	1019.44
3.0	17.12	7.91	1013.28	8.9	22.98	6.79	1017.99	15.2	24.55	4.35	1019.46
3.1	17.18	7.92	1013.32	9.0	22.99	6.74	1018.00	15.3	24.60	4.17	1019.51
3.2	17.96	7.78	1013.95	9.2	22.99	6.73	1018.00	15.6	24.67	4.06	1019.58
3.4	18.21	7.76	1014.15	9.3	23.01	6.72	1018.02	15.7	24.71	4.02	1019.61
3.5	18.61	7.64	1014.47	9.4	23.08	6.73	1018.08	15.8	24.76	4.00	1019.65
3.6	18.95	7.50	1014.75	9.5	23.17	6.63	1018.16	15.9	24.75	4.00	1019.64
3.7	19.30	7.37	1015.04	9.7	23.25	6.35	1018.25	16.1	24.83	3.99	1019.71
3.9	19.41	7.31	1015.13	9.9	23.20	6.59	1018.18	16.2	24.87	3.97	1019.74
4.1	19.64	7.25	1015.32	10.0	23.31	6.69	1018.26	16.3	24.90	3.96	1019.77
4.2	19.83	7.19	1015.48	10.1	23.36	6.62	1018.31	16.4	24.92	3.96	1019.78
4.3	19.93	7.17	1015.56	10.3	23.40	6.57	1018.34	16.5	24.94	3.95	1019.80
4.5	20.00	7.25	1015.60	10.4	23.40	6.54	1018.35	16.7	24.99	3.92	1019.84
4.6	20.17	7.33	1015.73	10.5	23.42	6.52	1018.36	16.8	25.05	3.87	1019.89
4.7	20.42	7.22	1015.94	10.6	23.45	6.58	1018.38	16.9	25.08	3.83	1019.92
4.8	20.57	7.13	1016.06	10.8	23.63	6.20	1018.56	17.0	25.14	3.77	1019.97
5.0	20.70	6.99	1016.18	10.9	23.62	6.18	1018.56	17.2	25.16	3.74	1019.99
5.1	20.84	6.96	1016.29	11.0	23.64	6.18	1018.57	17.3	25.19	3.70	1020.02
5.2	20.81	6.96	1016.27	11.1	23.69	6.19	1018.61	17.4	25.23	3.65	1020.05
5.3	20.93	6.90	1016.37	11.2	23.79	6.22	1018.69	17.5	25.28	3.57	1020.10
5.4	20.98	6.88	1016.41	11.5	23.87	6.25	1018.75	17.6	25.33	3.50	1020.14
5.6	21.00	6.86	1016.43	11.6	23.95	6.26	1018.81	17.8	25.35	3.46	1020.16
5.7	21.04	6.90	1016.46	11.7	23.98	6.27	1018.83	17.9	25.37	3.43	1020.18
6.0	21.10	6.91	1016.50	11.9	23.97	6.30	1018.82	18.0	25.44	3.38	1020.24
6.1	21.13	6.91	1016.53	12.0	24.01	6.27	1018.85	18.2	25.42	3.38	1020.22
6.2	21.18	6.91	1016.56	12.1	24.03	6.20	1018.88	18.3	25.57	3.19	1020.35

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Table A7.14. Station 86THN continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
18.5	25.84	2.91	1020.59	19.4	26.39	2.39	1021.06	20.5	26.46	2.31	1021.12
18.7	25.76	2.98	1020.52	19.5	26.39	2.39	1021.06	20.6	26.49	2.26	1021.15
18.8	26.21	2.54	1020.91	19.6	26.40	2.36	1021.07	20.7	26.50	2.26	1021.15
18.9	26.31	2.46	1020.99	19.9	26.44	2.34	1021.10	20.9	26.53	2.23	1021.18
19.1	26.36	2.41	1021.03	20.1	26.47	2.32	1021.13				
19.3	26.39	2.40	1021.06	20.4	26.46	2.31	1021.12				

STATION: 86THS DATE: 8 September 1986

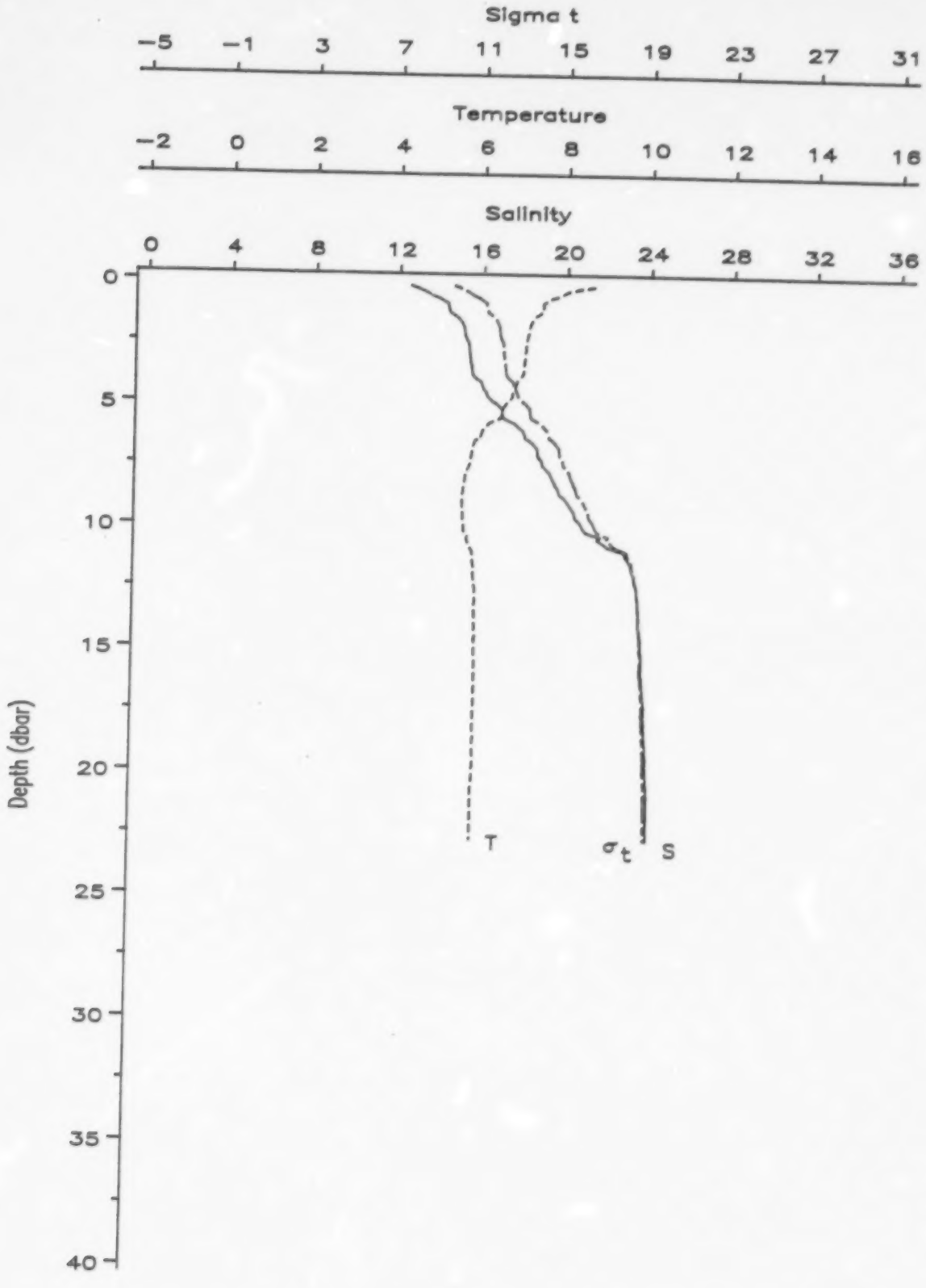

Table A7.15. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86THS, September 8, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	12.54	8.62	1009.63	7.3	18.86	5.73	1014.85	14.5	23.70	5.90	1018.65
0.3	12.84	8.27	1009.90	7.5	18.91	5.72	1014.89	14.6	23.72	5.88	1018.67
0.4	13.15	8.02	1010.16	7.7	19.13	5.66	1015.07	14.7	23.70	5.89	1018.65
0.6	13.60	7.80	1010.54	7.8	19.25	5.62	1015.17	14.8	23.70	5.90	1018.65
0.7	13.90	7.62	1010.79	8.1	19.41	5.61	1015.29	15.0	23.72	5.89	1018.66
0.9	14.31	7.43	1011.13	8.2	19.49	5.60	1015.36	15.1	23.75	5.89	1018.69
1.1	14.35	7.43	1011.16	8.3	19.52	5.59	1015.38	15.2	23.76	5.89	1018.70
1.2	14.38	7.42	1011.18	8.4	19.62	5.58	1015.46	15.4	23.76	5.90	1018.70
1.3	14.46	7.37	1011.25	8.7	19.75	5.56	1015.57	15.6	23.75	5.90	1018.69
1.4	14.64	7.28	1011.40	8.8	19.92	5.57	1015.70	15.7	23.76	5.90	1018.70
1.5	14.81	7.21	1011.54	9.0	20.11	5.55	1015.85	15.8	23.75	5.89	1018.69
1.7	14.99	7.15	1011.69	9.2	20.27	5.56	1015.98	16.0	23.75	5.90	1018.69
1.9	15.10	7.11	1011.78	9.3	20.34	5.56	1016.03	16.1	23.79	5.90	1018.72
2.2	15.14	7.08	1011.81	9.4	20.42	5.56	1016.09	16.3	23.81	5.90	1018.73
2.4	15.24	7.05	1011.89	9.6	20.47	5.58	1016.13	16.6	23.84	5.90	1018.76
2.5	15.31	7.04	1011.95	9.7	20.55	5.57	1016.20	16.7	23.85	5.90	1018.77
2.6	15.34	7.03	1011.97	9.8	20.69	5.58	1016.30	16.8	23.86	5.90	1018.77
2.9	15.36	7.02	1011.99	10.1	20.89	5.60	1016.46	17.1	23.90	5.90	1018.81
3.0	15.38	7.01	1012.00	10.2	20.98	5.60	1016.53	17.3	23.92	5.90	1018.82
3.1	15.40	7.01	1012.02	10.3	21.28	5.64	1016.76	17.6	23.91	5.89	1018.81
3.3	15.42	7.00	1012.04	10.4	21.68	5.69	1017.08	17.7	23.92	5.89	1018.82
3.4	15.46	6.99	1012.07	10.5	21.54	5.67	1016.97	17.8	23.93	5.89	1018.83
3.5	15.47	6.99	1012.08	10.7	21.91	5.70	1017.26	17.9	23.93	5.89	1018.83
3.8	15.52	6.97	1012.12	10.8	22.05	5.72	1017.36	18.0	23.94	5.89	1018.84
3.9	15.59	6.91	1012.18	10.9	22.42	5.76	1017.65	18.3	23.95	5.89	1018.85
4.0	15.73	6.87	1012.29	11.0	22.83	5.80	1017.97	18.4	23.94	5.90	1018.84
4.1	15.93	6.82	1012.45	11.2	22.92	5.82	1018.04	18.6	23.98	5.90	1018.87
4.4	16.04	6.78	1012.54	11.3	23.01	5.82	1018.11	18.8	24.00	5.89	1018.89
4.5	16.15	6.74	1012.63	11.4	23.10	5.82	1018.18	19.1	24.01	5.89	1018.89
4.6	16.21	6.72	1012.68	11.5	23.16	5.83	1018.23	19.2	24.03	5.89	1018.91
4.7	16.24	6.72	1012.71	11.8	23.23	5.86	1018.28	19.3	24.04	5.90	1018.92
4.9	16.49	6.63	1012.91	11.9	23.30	5.84	1018.34	19.4	24.05	5.90	1018.92
5.0	16.69	6.57	1013.07	12.3	23.39	5.86	1018.41	19.7	24.04	5.90	1018.92
5.1	16.81	6.53	1013.17	12.4	23.45	5.86	1018.45	19.8	24.05	5.89	1018.92
5.2	16.95	6.49	1013.28	12.5	23.48	5.88	1018.48	19.9	24.05	5.89	1018.92
5.5	16.98	6.46	1013.31	12.8	23.51	5.88	1018.50	20.2	24.07	5.89	1018.94
5.6	17.05	6.42	1013.37	12.9	23.54	5.88	1018.52	20.3	24.08	5.89	1018.95
5.8	17.56	6.16	1013.79	13.0	23.55	5.88	1018.53	20.4	24.08	5.88	1018.95
6.1	17.96	6.01	1014.12	13.1	23.55	5.88	1018.53	20.5	24.11	5.87	1018.97
6.2	18.02	5.99	1014.17	13.3	23.57	5.87	1018.55	20.6	24.11	5.87	1018.97
6.4	18.09	5.96	1014.22	13.4	23.60	5.87	1018.57	20.9	24.12	5.87	1018.98
6.5	18.29	5.84	1014.39	13.6	23.59	5.88	1018.56	21.0	24.12	5.87	1018.98
6.6	18.43	5.82	1014.50	13.7	23.61	5.88	1018.58	21.1	24.12	5.87	1018.98
6.8	18.64	5.77	1014.67	13.9	23.61	5.88	1018.58	21.4	24.12	5.87	1018.98
7.1	18.69	5.76	1014.71	14.1	23.62	5.89	1018.59	21.6	24.12	5.87	1018.98
7.2	18.76	5.75	1014.77	14.2	23.65	5.88	1018.61	21.8	24.13	5.87	1018.99

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Table A7.15. Station 86THS continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
22.0	24.12	5.87	1018.98	22.4	24.12	5.87	1018.98	22.7	24.13	5.87	1018.99
22.1	24.12	5.87	1018.98	22.5	24.13	5.86	1018.99				
22.3	24.13	5.87	1018.99	22.6	24.12	5.86	1018.98				

STATION: 86THN DATE: 8 September 1986

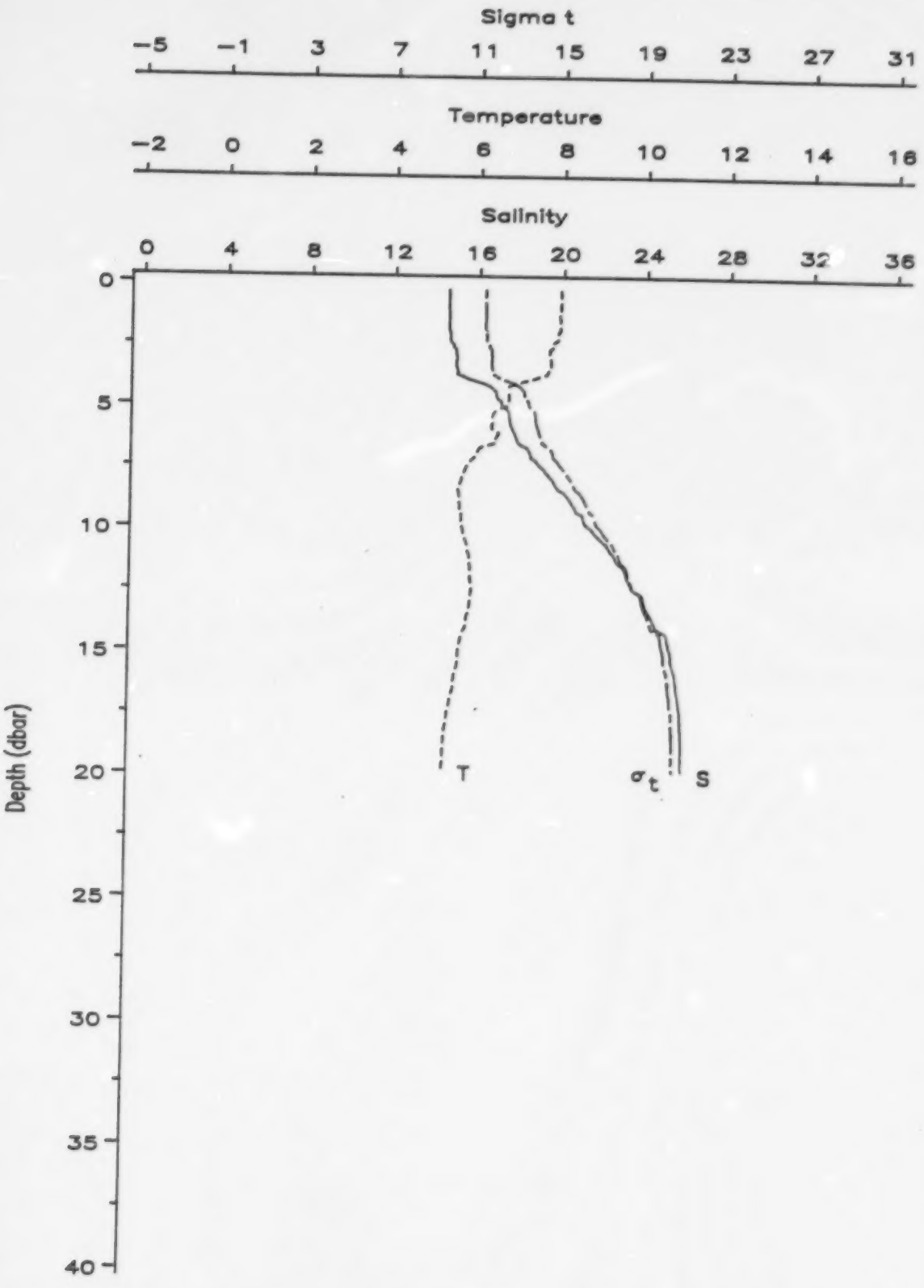

Table A7.16. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 86THN, September 8, 1986.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.3	14.56	7.93	1011.28	6.7	18.32	6.03	1014.40	13.4	24.22	5.80	1019.07
0.4	14.56	7.94	1011.27	6.9	18.46	5.96	1014.52	13.5	24.30	5.78	1019.13
0.5	14.57	7.93	1011.28	7.1	18.51	5.91	1014.56	13.6	24.36	5.76	1019.18
0.8	14.56	7.94	1011.27	7.2	18.71	5.83	1014.72	13.8	24.46	5.75	1019.26
0.9	14.56	7.93	1011.28	7.4	18.89	5.75	1014.87	14.0	24.56	5.74	1019.34
1.0	14.56	7.93	1011.28	7.6	19.15	5.69	1015.08	14.1	24.78	5.70	1019.52
1.2	14.57	7.94	1011.28	7.7	19.22	5.67	1015.14	14.2	25.02	5.66	1019.71
1.3	14.59	7.91	1011.30	7.8	19.33	5.64	1015.23	14.3	25.08	5.64	1019.76
1.6	14.57	7.92	1011.28	8.0	19.54	5.61	1015.40	14.5	25.11	5.63	1019.79
1.8	14.57	7.92	1011.28	8.3	19.74	5.54	1015.56	14.6	25.14	5.61	1019.81
1.9	14.58	7.92	1011.29	8.4	19.84	5.53	1015.64	14.8	25.18	5.59	1019.85
2.0	14.63	7.88	1011.34	8.5	20.07	5.55	1015.82	14.9	25.25	5.58	1019.90
2.3	14.63	7.87	1011.34	8.7	20.27	5.56	1015.98	15.2	25.30	5.57	1019.94
2.4	14.67	7.78	1011.38	8.8	20.35	5.56	1016.04	15.3	25.29	5.57	1019.93
2.5	14.79	7.74	1011.47	8.9	20.42	5.56	1016.09	15.6	25.38	5.55	1020.01
2.6	14.81	7.76	1011.49	9.1	20.58	5.58	1016.22	15.8	25.48	5.50	1020.09
2.7	14.92	7.68	1011.58	9.3	20.69	5.57	1016.31	16.1	25.53	5.48	1020.13
2.9	14.92	7.66	1011.58	9.4	20.96	5.61	1016.52	16.2	25.55	5.47	1020.15
3.0	14.96	7.68	1011.61	9.7	21.05	5.61	1016.59	16.3	25.56	5.47	1020.16
3.2	14.92	7.71	1011.58	9.8	21.12	5.61	1016.64	16.4	25.57	5.47	1020.16
3.4	14.93	7.71	1011.59	10.0	21.42	5.65	1016.87	16.6	25.60	5.45	1020.19
3.6	15.01	7.64	1011.66	10.2	21.60	5.67	1017.01	16.8	25.66	5.41	1020.24
3.7	14.99	7.62	1011.64	10.3	21.73	5.69	1017.11	17.2	25.71	5.38	1020.28
3.9	15.50	7.29	1012.07	10.4	21.85	5.70	1017.21	17.3	25.74	5.36	1020.31
4.1	16.29	6.83	1012.73	10.6	22.13	5.75	1017.42	17.4	25.77	5.34	1020.34
4.2	16.52	6.70	1012.93	10.9	22.35	5.77	1017.60	17.7	25.77	5.32	1020.34
4.4	16.81	6.71	1013.15	11.0	22.48	5.80	1017.70	17.8	25.78	5.31	1020.35
4.6	16.85	6.71	1013.18	11.3	22.64	5.83	1017.82	17.9	25.79	5.31	1020.35
4.7	16.90	6.72	1013.22	11.4	22.77	5.82	1017.92	18.1	25.80	5.28	1020.36
4.8	17.06	6.71	1013.35	11.5	22.93	5.83	1018.05	18.3	25.82	5.27	1020.38
5.0	17.13	6.68	1013.41	11.6	23.02	5.84	1018.12	18.4	25.81	5.27	1020.37
5.1	17.30	6.46	1013.56	11.7	23.06	5.83	1018.15	18.5	25.83	5.26	1020.39
5.2	17.41	6.40	1013.65	12.0	23.16	5.84	1018.23	18.8	25.84	5.25	1020.40
5.3	17.44	6.35	1013.68	12.1	23.23	5.85	1018.28	19.0	25.84	5.25	1020.40
5.5	17.47	6.31	1013.71	12.2	23.30	5.85	1018.34	19.2	25.83	5.25	1020.39
5.7	17.50	6.33	1013.73	12.4	23.39	5.87	1018.41	19.3	25.84	5.24	1020.40
5.8	17.54	6.30	1013.76	12.5	23.57	5.87	1018.55	19.4	25.84	5.25	1020.40
5.9	17.60	6.31	1013.81	12.6	23.82	5.86	1018.75	19.5	25.82	5.24	1020.38
6.1	17.71	6.48	1013.88	12.7	23.91	5.85	1018.82	19.6	25.82	5.23	1020.39
6.3	17.80	6.41	1013.96	12.9	23.95	5.84	1018.85	19.8	25.86	5.23	1020.42
6.5	17.90	6.40	1014.04	13.0	23.99	5.84	1018.88				
6.6	18.07	6.20	1014.19	13.2	24.08	5.82	1018.96				

STATION: 87T02 DATE: 5 March 1987

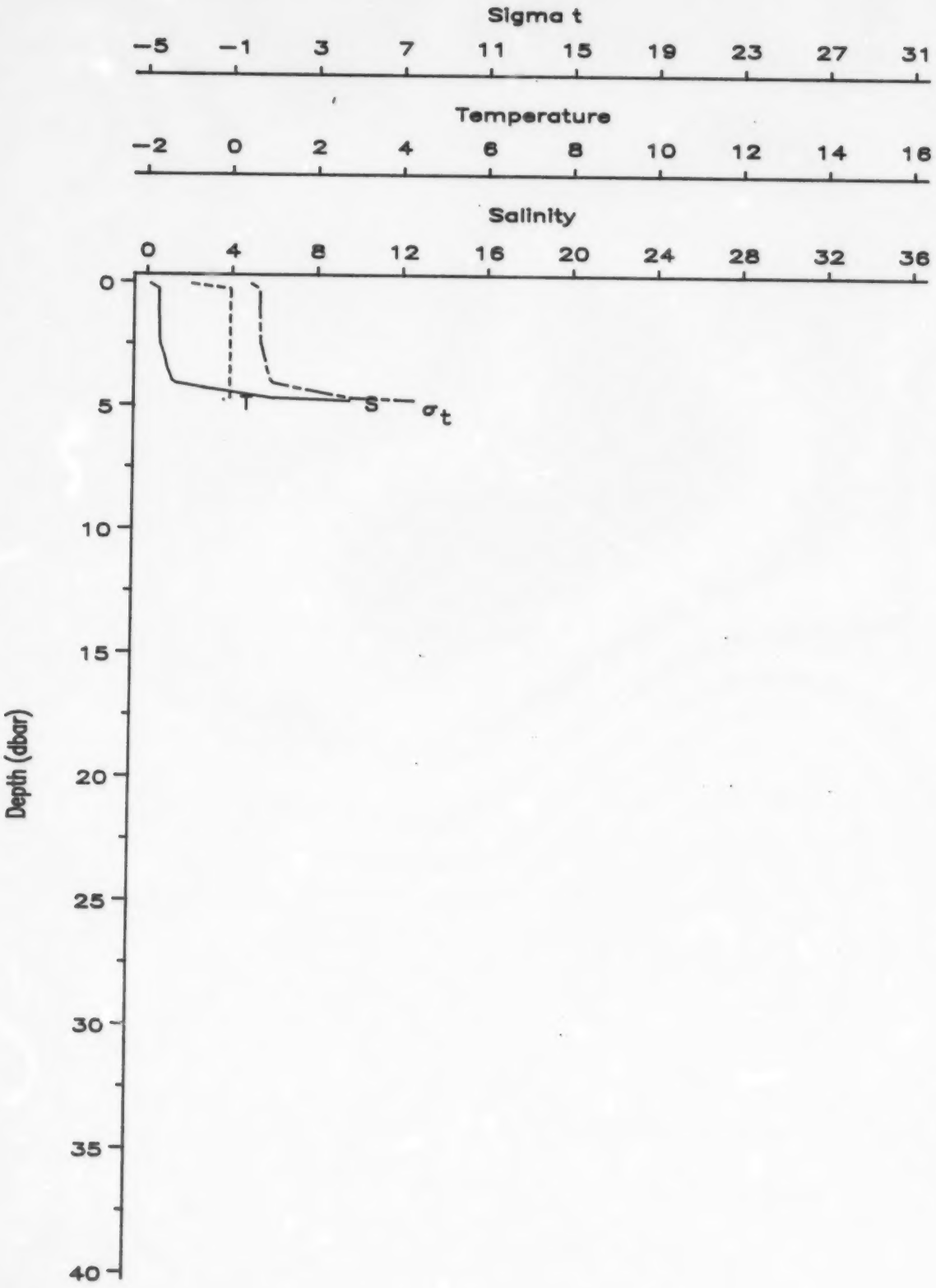

Table A8.1. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87T02, March 5, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	0.17	-0.94	999.91	1.7	0.59	-0.04	1000.32	3.6	1.01	-0.03	1000.67
0.3	0.58	-0.04	1000.32	1.9	0.60	-0.04	1000.33	3.7	1.08	-0.04	1000.72
0.4	0.57	-0.03	1000.31	2.1	0.61	-0.04	1000.34	4.0	1.20	-0.04	1000.82
0.6	0.56	-0.03	1000.30	2.2	0.61	-0.03	1000.34	4.1	1.37	-0.04	1000.96
0.8	0.57	-0.04	1000.31	2.5	0.63	-0.04	1000.36	4.3	2.71	-0.04	1002.05
1.0	0.56	-0.04	1000.30	2.7	0.72	-0.04	1000.43	4.7	5.84	-0.03	1004.59
1.1	0.55	-0.04	1000.29	3.0	0.83	-0.03	1000.52	4.8	9.50	-0.19	1007.54
1.4	0.58	-0.04	1000.32	3.2	0.90	-0.04	1000.58				
1.5	0.59	-0.04	1000.32	3.4	0.94	-0.04	1000.61				

STATION: 87T01 DATE: 6 March 1987

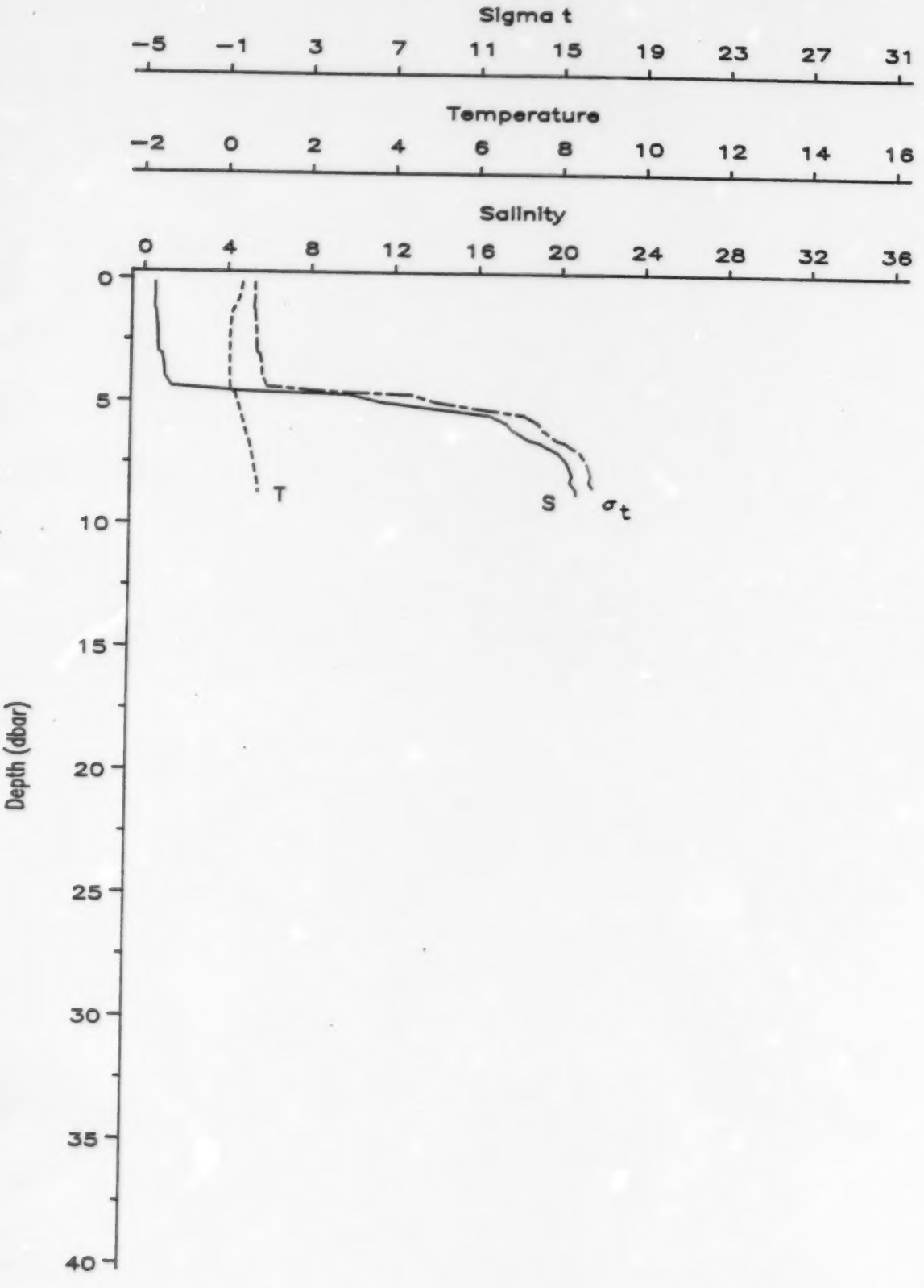

Table A8.2. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87T01, March 6, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	0.52	0.35	1000.29	3.1	0.89	0.06	1000.58	6.2	17.90	0.46	1014.32
0.4	0.52	0.33	1000.29	3.4	0.96	0.06	1000.63	6.5	18.47	0.50	1014.78
0.8	0.52	0.28	1000.29	3.5	0.97	0.06	1000.64	6.6	18.96	0.54	1015.17
1.0	0.51	0.22	1000.28	3.7	1.00	0.06	1000.67	6.7	19.16	0.56	1015.33
1.2	0.50	0.17	1000.26	4.0	1.01	0.06	1000.67	7.0	19.86	0.60	1015.90
1.3	0.57	0.12	1000.32	4.1	1.12	0.06	1000.76	7.3	20.18	0.63	1016.15
1.5	0.59	0.10	1000.33	4.4	1.34	0.07	1000.94	7.4	20.27	0.65	1016.22
1.8	0.63	0.08	1000.36	4.6	5.01	0.12	1003.93	7.7	20.43	0.68	1016.35
1.9	0.64	0.07	1000.37	4.7	9.87	0.21	1007.86	7.9	20.52	0.70	1016.42
2.1	0.66	0.07	1000.39	5.0	11.34	0.24	1009.04	8.2	20.42	0.74	1016.34
2.4	0.67	0.06	1000.40	5.2	13.30	0.30	1010.62	8.5	20.71	0.76	1016.58
2.6	0.68	0.06	1000.40	5.5	16.55	0.34	1013.24	8.7	20.72	0.77	1016.58
2.7	0.68	0.06	1000.40	5.8	17.36	0.40	1013.89				
3.0	0.71	0.06	1000.43	6.1	17.69	0.44	1014.15				

STATION: 87T08 DATE: 7 March 1987

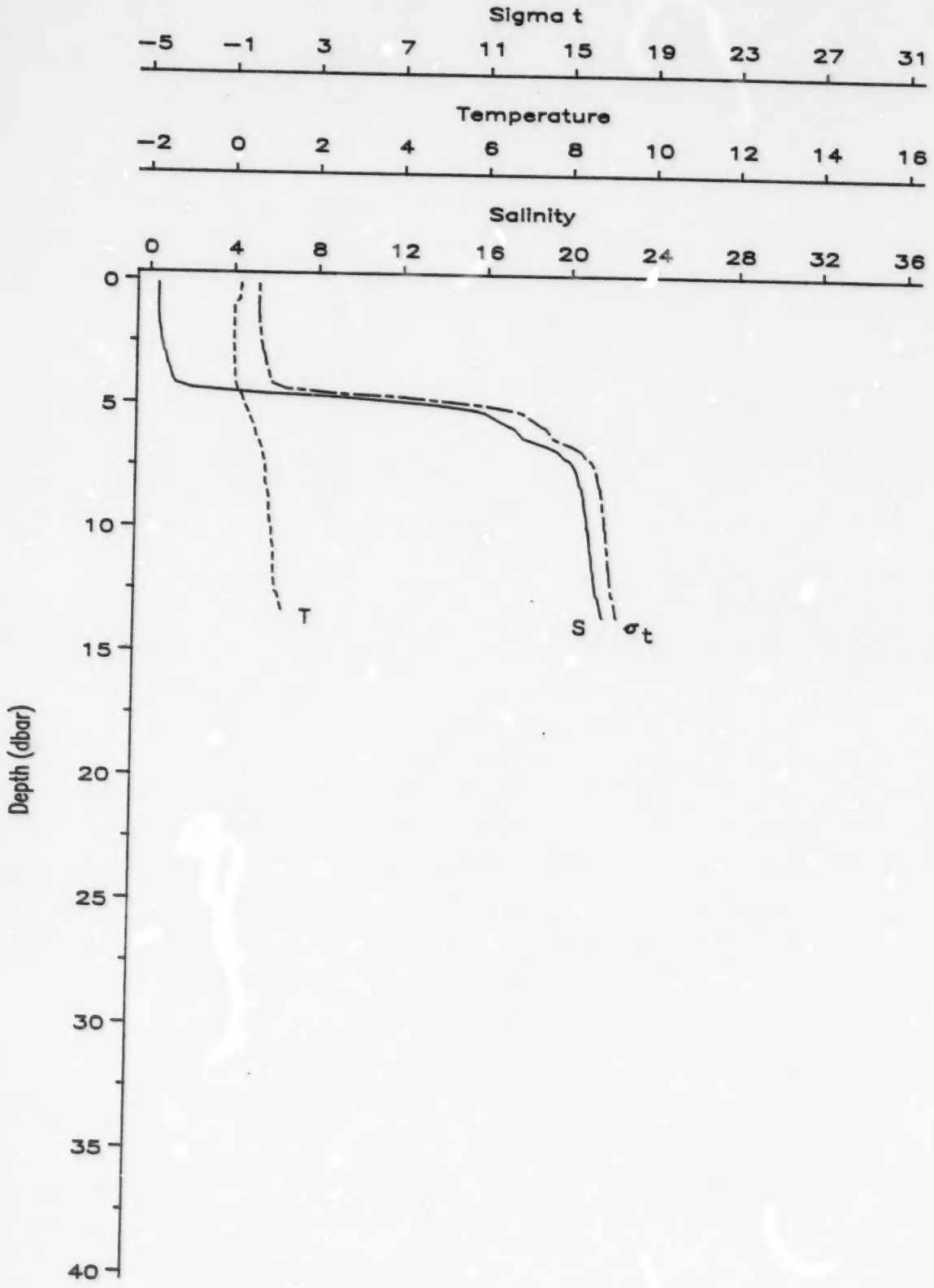

Table A8.3. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87T08, March 7, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	0.40	0.16	1000.18	4.7	8.76	0.20	1006.96	8.9	20.68	0.88	1016.55
0.3	0.40	0.16	1000.18	5.0	13.59	0.26	1010.85	9.2	20.72	0.88	1016.58
0.5	0.39	0.13	1000.17	5.2	15.42	0.32	1012.33	9.4	20.78	0.88	1016.63
0.8	0.39	0.13	1000.17	5.3	15.92	0.35	1012.73	9.7	20.82	0.90	1016.66
1.0	0.38	0.00	1000.15	5.6	16.57	0.42	1013.25	9.9	20.83	0.91	1016.67
1.4	0.40	0.00	1000.17	5.8	17.05	0.48	1013.64	10.0	20.89	0.94	1016.72
1.5	0.42	0.00	1000.19	5.9	17.33	0.51	1013.86	10.5	20.96	0.95	1016.77
1.8	0.44	0.00	1000.20	6.3	17.76	0.56	1014.21	10.8	20.99	0.99	1016.80
2.0	0.50	0.00	1000.25	6.5	18.46	0.63	1014.77	11.0	21.05	1.00	1016.84
2.4	0.56	0.00	1000.30	6.6	18.84	0.65	1015.08	11.1	21.06	1.00	1016.85
2.5	0.57	0.00	1000.31	6.8	19.39	0.69	1015.52	11.5	21.09	1.00	1016.88
2.6	0.62	0.00	1000.35	7.1	19.74	0.73	1015.80	11.7	21.16	1.00	1016.93
2.9	0.67	0.01	1000.39	7.2	19.99	0.74	1016.00	12.1	21.20	1.02	1016.96
3.0	0.77	0.01	1000.47	7.4	20.17	0.78	1016.14	12.3	21.24	1.03	1017.00
3.4	0.86	0.02	1000.55	7.7	20.33	0.79	1016.27	12.6	21.29	1.05	1017.03
3.6	0.98	0.03	1000.65	7.8	20.35	0.80	1016.29	12.7	21.39	1.11	1017.11
4.0	1.10	0.04	1000.75	8.2	20.47	0.79	1016.38	12.9	21.45	1.13	1017.16
4.2	1.26	0.05	1000.88	8.3	20.58	0.81	1016.47	13.1	21.51	1.17	1017.21
4.4	2.05	0.09	1001.52	8.4	20.57	0.83	1016.46	13.4	21.57	1.21	1017.26
4.6	5.40	0.16	1004.24	8.7	20.66	0.87	1016.53	13.5	21.63	1.24	1017.30

STATION: 87T04 DATE: 8 March 1987

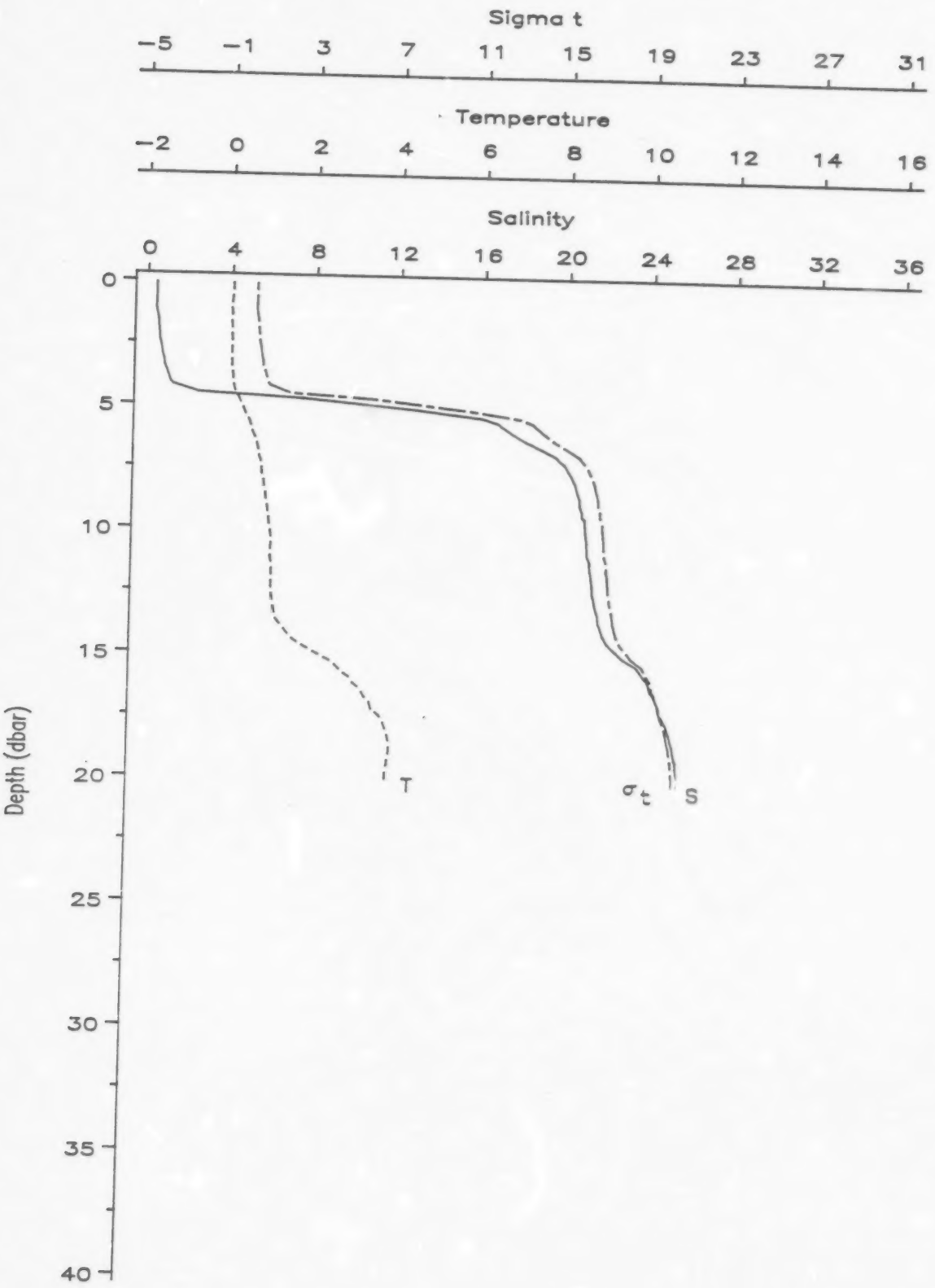

Table A8.4. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87T04, March 8, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	0.42	0.02	1000.19	7.1	19.70	0.71	1015.77	13.7	21.68	1.21	1017.34
0.3	0.42	0.02	1000.19	7.2	19.88	0.74	1015.91	13.9	21.76	1.32	1017.40
0.4	0.42	0.02	1000.19	7.5	20.09	0.76	1016.08	14.1	21.85	1.40	1017.47
0.6	0.42	0.01	1000.19	7.7	20.24	0.77	1016.20	14.4	22.06	1.56	1017.64
0.9	0.41	-0.01	1000.18	7.9	20.34	0.79	1016.28	14.6	22.30	1.74	1017.82
1.1	0.40	-0.01	1000.17	8.0	20.40	0.81	1016.33	14.7	22.44	1.85	1017.93
1.3	0.44	0.00	1000.20	8.3	20.50	0.84	1016.41	15.0	22.82	2.17	1018.22
1.5	0.50	0.00	1000.25	8.4	20.54	0.86	1016.44	15.3	23.45	2.51	1018.71
1.6	0.51	-0.01	1000.26	8.6	20.62	0.87	1016.50	15.7	23.80	2.76	1018.97
1.9	0.54	0.00	1000.29	8.9	20.65	0.90	1016.52	15.9	24.00	2.93	1019.12
2.1	0.57	0.00	1000.31	9.1	20.74	0.92	1016.60	16.1	24.08	3.00	1019.18
2.4	0.60	0.01	1000.34	9.3	20.75	0.93	1016.60	16.3	24.14	3.15	1019.22
2.5	0.63	0.00	1000.36	9.4	20.87	0.94	1016.70	16.4	24.26	3.20	1019.31
2.6	0.67	0.01	1000.39	9.8	20.91	0.97	1016.73	16.7	24.41	3.31	1019.42
3.0	0.74	0.00	1000.45	9.9	20.92	0.98	1016.74	16.9	24.53	3.43	1019.51
3.2	0.81	0.01	1000.51	10.1	20.94	1.00	1016.76	17.2	24.58	3.48	1019.55
3.4	0.83	0.01	1000.52	10.3	20.98	1.02	1016.79	17.3	24.67	3.57	1019.61
3.6	0.93	0.02	1000.61	10.6	21.00	1.02	1016.80	17.4	24.74	3.64	1019.66
3.8	1.02	0.04	1000.68	10.9	21.03	1.01	1016.83	17.6	24.88	3.74	1019.77
4.1	1.14	0.05	1000.78	11.1	21.15	1.01	1016.92	17.9	25.00	3.80	1019.86
4.2	1.26	0.06	1000.88	11.2	21.14	1.02	1016.92	18.0	25.05	3.83	1019.89
4.5	2.44	0.11	1001.84	11.5	21.17	1.04	1016.94	18.3	25.14	3.88	1019.96
4.7	7.40	0.19	1005.86	11.7	21.23	1.04	1016.99	18.5	25.22	3.91	1020.02
5.1	12.87	0.30	1010.27	11.8	21.23	1.04	1016.99	18.9	25.30	3.91	1020.09
5.4	15.98	0.38	1012.78	12.1	21.28	1.04	1017.03	19.0	25.32	3.90	1020.10
5.6	16.72	0.45	1013.37	12.4	21.30	1.04	1017.04	19.1	25.38	3.88	1020.15
5.7	16.88	0.48	1013.50	12.5	21.33	1.04	1017.07	19.4	25.40	3.87	1020.17
6.0	17.42	0.52	1013.94	12.7	21.39	1.06	1017.11	19.5	25.41	3.84	1020.18
6.3	18.02	0.60	1014.42	12.8	21.41	1.07	1017.13	19.7	25.45	3.84	1020.21
6.4	18.29	0.63	1014.63	13.1	21.50	1.09	1017.20	19.9	25.46	3.83	1020.22
6.7	19.01	0.67	1015.21	13.2	21.55	1.11	1017.24	20.1	25.43	3.83	1020.20
6.9	19.47	0.69	1015.58	13.6	21.62	1.16	1017.30				

STATION: 87T09 DATE: 9 March 1987

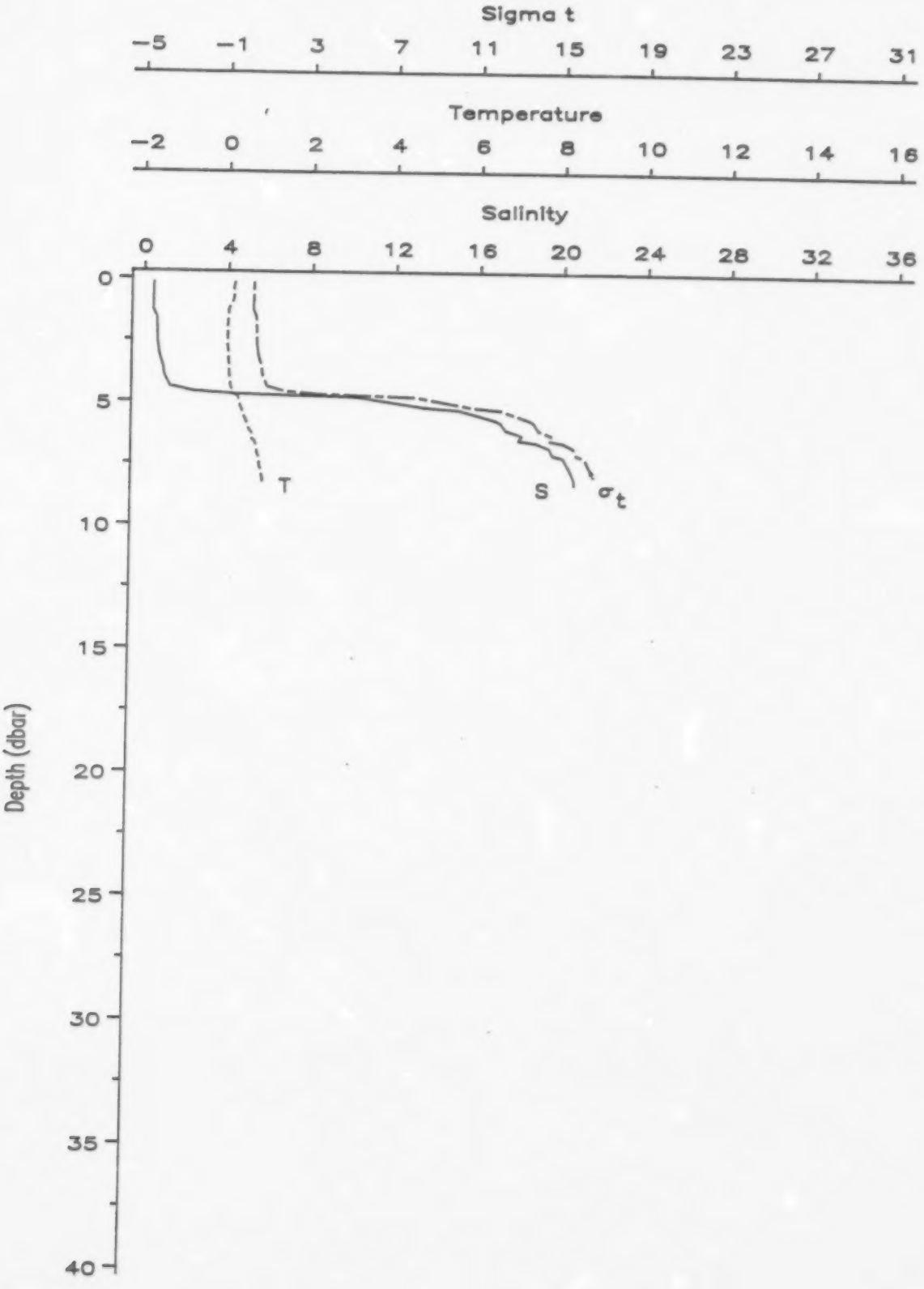

Table A8.5. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87T09, March 9, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	0.44	0.15	1000.21	3.3	0.80	0.01	1000.50	5.8	16.99	0.45	1013.59
0.4	0.43	0.12	1000.20	3.5	0.88	0.02	1000.57	6.1	17.26	0.50	1013.81
0.7	0.42	0.13	1000.20	3.7	0.94	0.02	1000.61	6.3	18.02	0.59	1014.42
0.9	0.42	0.11	1000.19	3.9	0.96	0.03	1000.63	6.5	17.86	0.56	1014.29
1.3	0.41	0.00	1000.18	4.1	1.06	0.04	1000.71	6.6	18.70	0.65	1014.96
1.5	0.54	0.00	1000.29	4.4	1.25	0.06	1000.87	6.8	19.31	0.69	1015.45
1.6	0.59	-0.01	1000.33	4.6	2.36	0.11	1001.78	7.1	19.49	0.71	1015.60
1.9	0.61	-0.02	1000.34	4.7	4.30	0.14	1003.35	7.2	19.98	0.74	1015.99
2.3	0.63	-0.02	1000.36	4.8	10.04	0.24	1007.99	7.4	20.10	0.76	1016.09
2.6	0.64	-0.02	1000.37	5.2	13.35	0.30	1010.66	7.6	20.24	0.77	1016.20
2.7	0.66	-0.02	1000.38	5.3	15.00	0.33	1011.99	7.8	20.35	0.80	1016.29
3.0	0.71	0.00	1000.42	5.5	15.90	0.36	1012.71	8.1	20.50	0.84	1016.41
3.1	0.73	0.00	1000.44	5.7	16.75	0.42	1013.40	8.3	20.50	0.85	1016.41

STATION: 87T09 DATE: 10 March 1987

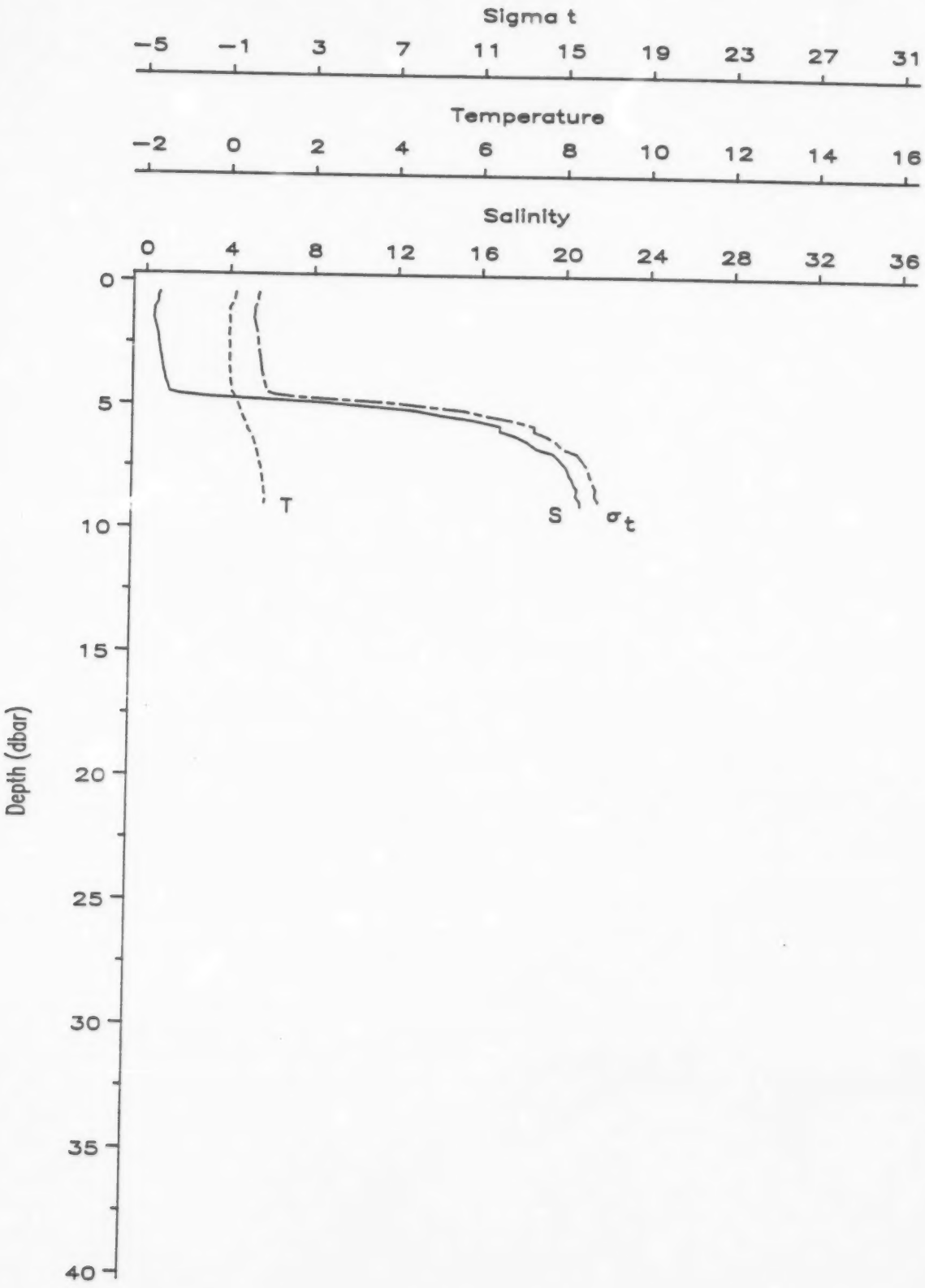

Table A8.6. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87T09, March 10, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.5	0.67	0.14	1000.40	3.6	0.85	0.01	1000.54	6.4	18.15	0.59	1014.52
0.6	0.60	0.12	1000.34	3.8	0.92	0.02	1000.60	6.7	18.63	0.64	1014.91
0.9	0.58	0.09	1000.32	4.0	0.96	0.02	1000.63	6.9	19.43	0.68	1015.55
1.1	0.41	-0.01	1000.18	4.2	1.05	0.04	1000.71	7.1	19.68	0.70	1015.75
1.3	0.40	-0.01	1000.17	4.5	1.16	0.05	1000.80	7.4	20.01	0.74	1016.01
1.5	0.38	-0.01	1000.15	4.6	1.61	0.10	1001.17	7.5	20.08	0.77	1016.07
1.7	0.43	0.00	1000.20	4.7	2.93	0.13	1002.24	7.8	20.21	0.79	1016.17
2.1	0.57	-0.02	1000.31	4.9	8.37	0.19	1006.65	7.9	20.30	0.81	1016.25
2.2	0.59	-0.02	1000.33	5.2	12.76	0.26	1010.19	8.2	20.45	0.83	1016.37
2.5	0.63	-0.01	1000.36	5.4	14.13	0.30	1011.29	8.3	20.57	0.84	1016.46
2.7	0.67	0.00	1000.39	5.6	15.78	0.36	1012.62	8.6	20.50	0.86	1016.41
3.0	0.73	0.00	1000.44	5.8	16.91	0.43	1013.53	8.8	20.70	0.88	1016.57
3.1	0.76	0.00	1000.47	6.0	16.90	0.45	1013.52	9.0	20.72	0.86	1016.58
3.4	0.81	0.00	1000.51	6.2	17.65	0.54	1014.12				

STATION: 87T05 DATE: 10 March 1987

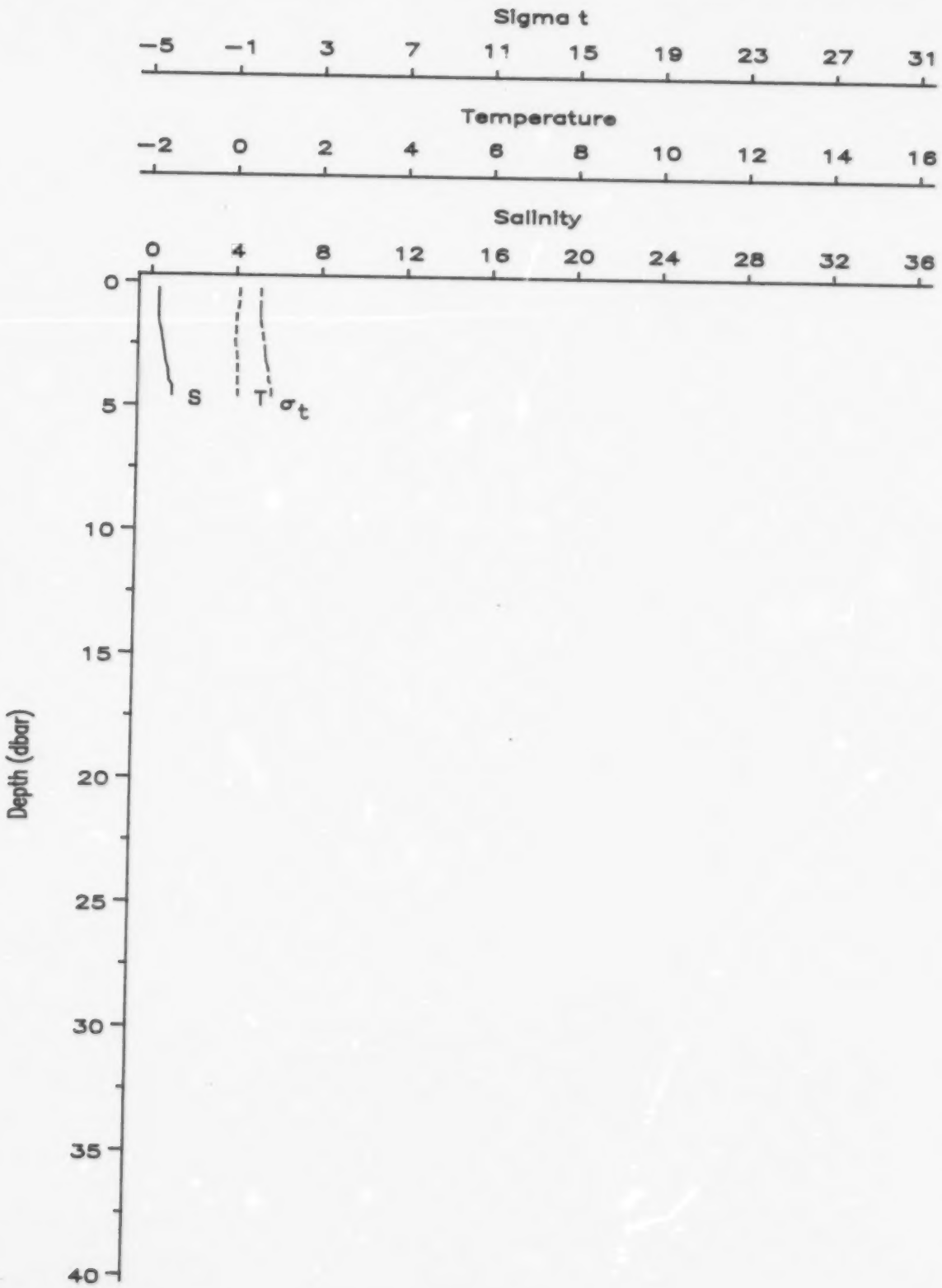

Table A8.7. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87T05, March 10, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.3	0.36	0.08	1000.14	1.7	0.39	0.00	1000.16	3.5	0.80	0.04	1000.50
0.4	0.36	0.08	1000.14	2.0	0.48	0.00	1000.24	3.6	0.82	0.04	1000.52
0.6	0.35	0.06	1000.13	2.4	0.55	-0.02	1000.29	4.0	0.85	0.04	1000.54
0.8	0.35	0.07	1000.13	2.5	0.58	-0.01	1000.32	4.1	0.93	0.04	1000.61
1.0	0.35	0.05	1000.13	2.7	0.60	0.01	1000.34	4.2	1.01	0.04	1000.67
1.4	0.35	0.01	1000.13	2.8	0.63	0.02	1000.36	4.5	1.02	0.05	1000.68
1.6	0.37	0.00	1000.15	3.2	0.69	0.04	1000.41	4.6	1.01	0.05	1000.67

STATION: 87M07 DATE: 11 March 1987

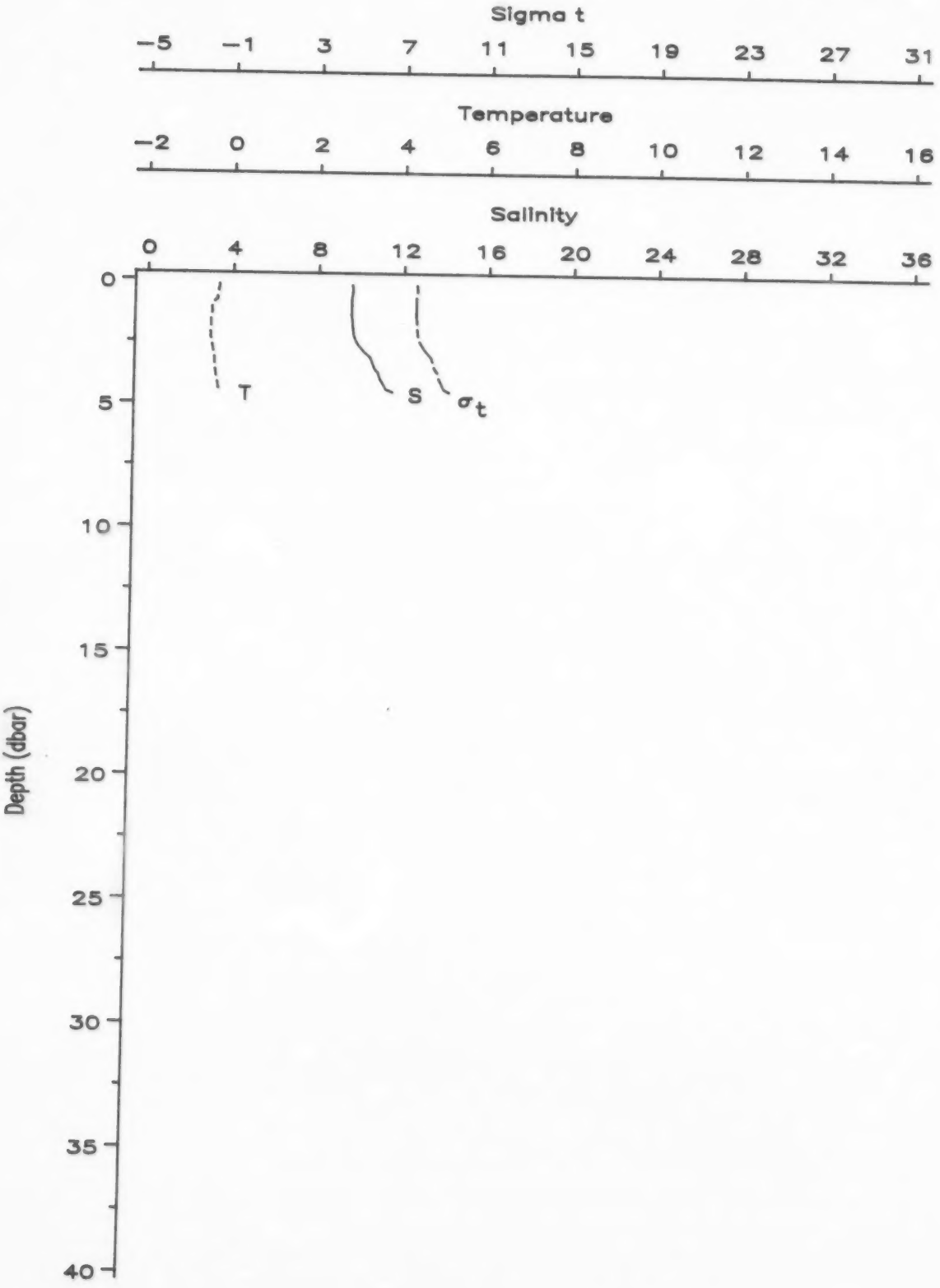

Table A8.8. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87M07, March 11, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	9.58	-0.33	1007.60	1.9	9.60	-0.52	1007.61	3.7	10.79	-0.40	1008.58
0.4	9.60	-0.35	1007.62	2.3	9.67	-0.53	1007.67	4.0	10.91	-0.38	1008.68
0.8	9.53	-0.38	1007.56	2.5	9.77	-0.50	1007.75	4.1	10.99	-0.36	1008.74
1.0	9.54	-0.51	1007.57	2.9	10.15	-0.46	1008.06	4.4	11.19	-0.33	1008.91
1.3	9.54	-0.49	1007.57	3.1	10.43	-0.43	1008.29	4.5	11.49	-0.24	1009.15
1.4	9.53	-0.51	1007.56	3.5	10.61	-0.42	1008.43				
1.6	9.57	-0.52	1007.59	3.6	10.67	-0.41	1008.48				

STATION: 87M08 DATE: 12 March 1987

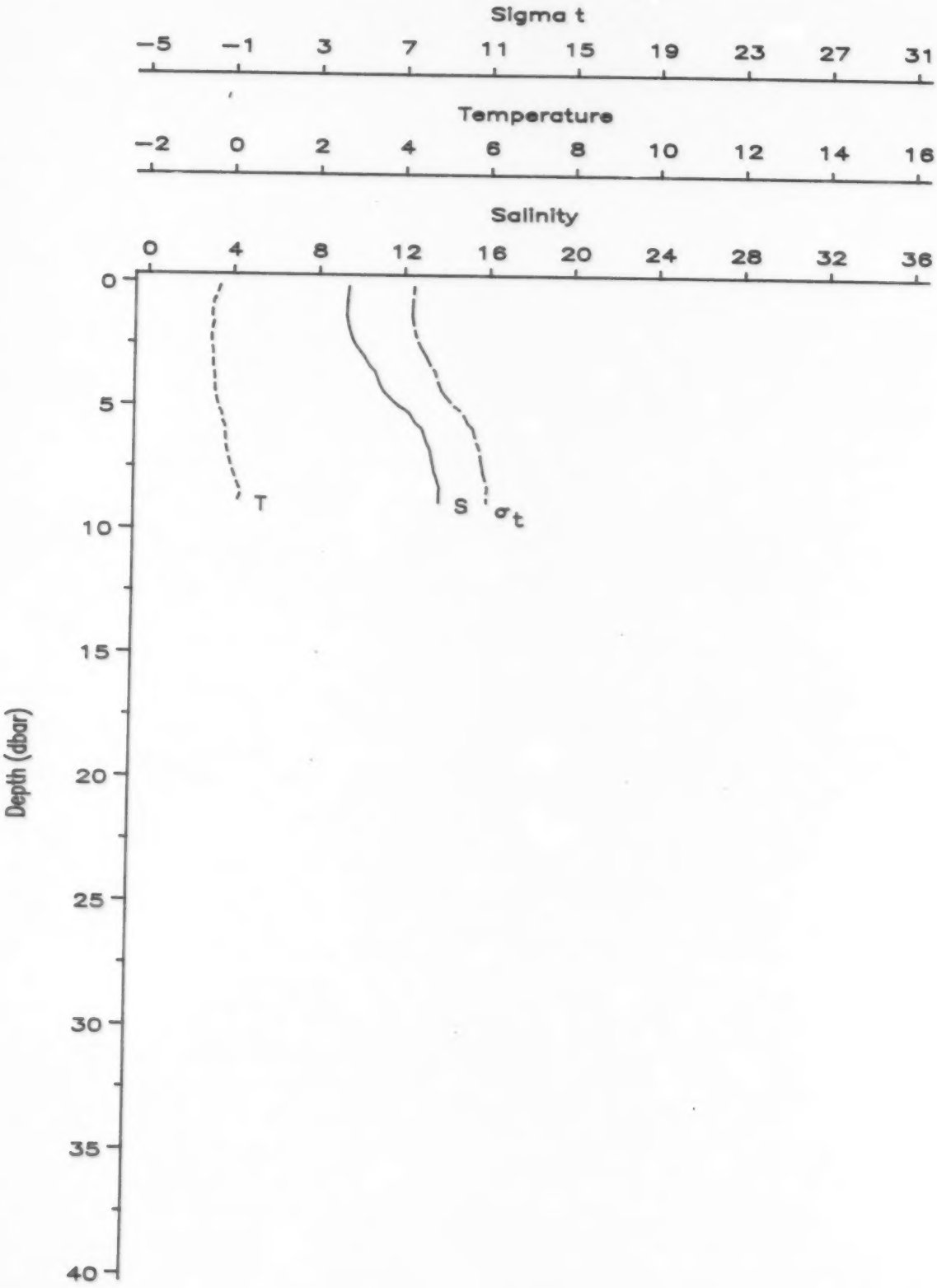

Table A8.9. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87M08, March 12, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	9.39	-0.32	1007.45	3.4	10.41	-0.47	1008.27	6.6	13.17	-0.15	1010.51
0.3	9.37	-0.34	1007.43	3.6	10.64	-0.44	1008.46	6.8	13.27	-0.12	1010.59
0.7	9.32	-0.43	1007.39	3.9	10.77	-0.43	1008.56	7.1	13.33	-0.09	1010.64
0.8	9.31	-0.47	1007.38	4.1	10.85	-0.42	1008.63	7.2	13.34	-0.07	1010.65
1.0	9.30	-0.48	1007.37	4.4	11.04	-0.42	1008.78	7.4	13.41	-0.04	1010.70
1.3	9.29	-0.50	1007.36	4.6	11.25	-0.40	1008.95	7.7	13.47	0.02	1010.75
1.4	9.29	-0.50	1007.36	4.7	11.38	-0.38	1009.06	7.8	13.53	0.04	1010.80
1.6	9.34	-0.45	1007.41	5.0	11.76	-0.34	1009.37	8.1	13.64	0.10	1010.89
1.8	9.39	-0.48	1007.44	5.2	12.15	-0.30	1009.68	8.3	13.72	0.15	1010.96
2.1	9.50	-0.51	1007.53	5.3	12.28	-0.26	1009.79	8.5	13.69	0.21	1010.93
2.3	9.58	-0.51	1007.60	5.7	12.57	-0.22	1010.02	8.7	13.69	0.18	1010.93
2.4	9.63	-0.51	1007.64	5.8	12.72	-0.18	1010.14	8.8	13.69	0.14	1010.93
2.6	9.78	-0.49	1007.76	5.9	12.86	-0.17	1010.26	8.9	13.69	0.15	1010.93
2.9	10.04	-0.47	1007.97	6.2	12.99	-0.16	1010.36				
3.0	10.13	-0.47	1008.04	6.5	13.10	-0.15	1010.45				

STATION: 87M12 DATE: 13 March 1987

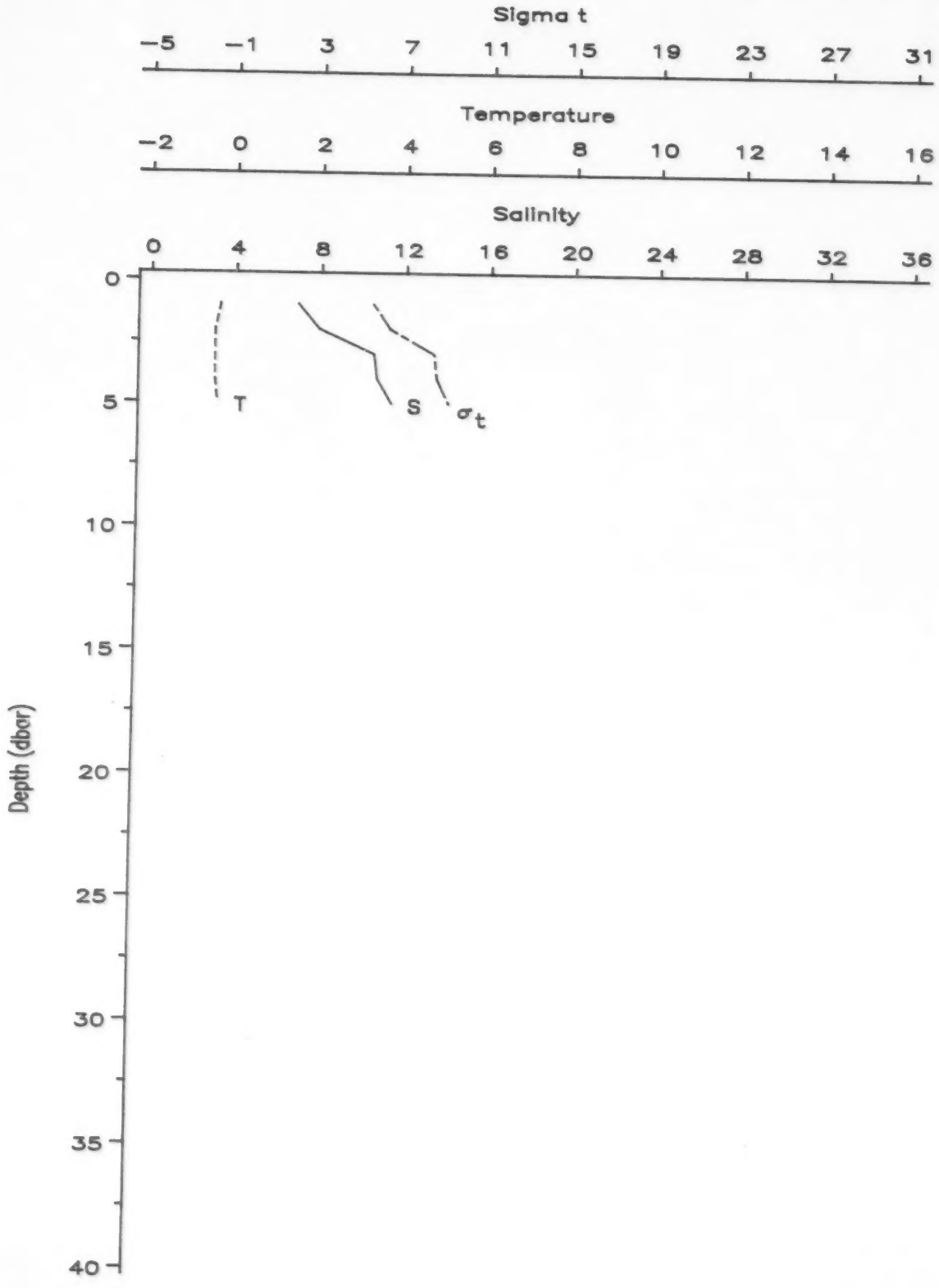

Table A8.10. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station B7M12, March 13, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
1.0	6.92	-0.37	1005.45	3.0	10.49	-0.49	1008.33	5.0	11.33	-0.43	1009.02
2.0	7.91	-0.49	1006.25	4.0	10.64	-0.49	1008.46				

STATION: 87M10 DATE: 16 March 1987

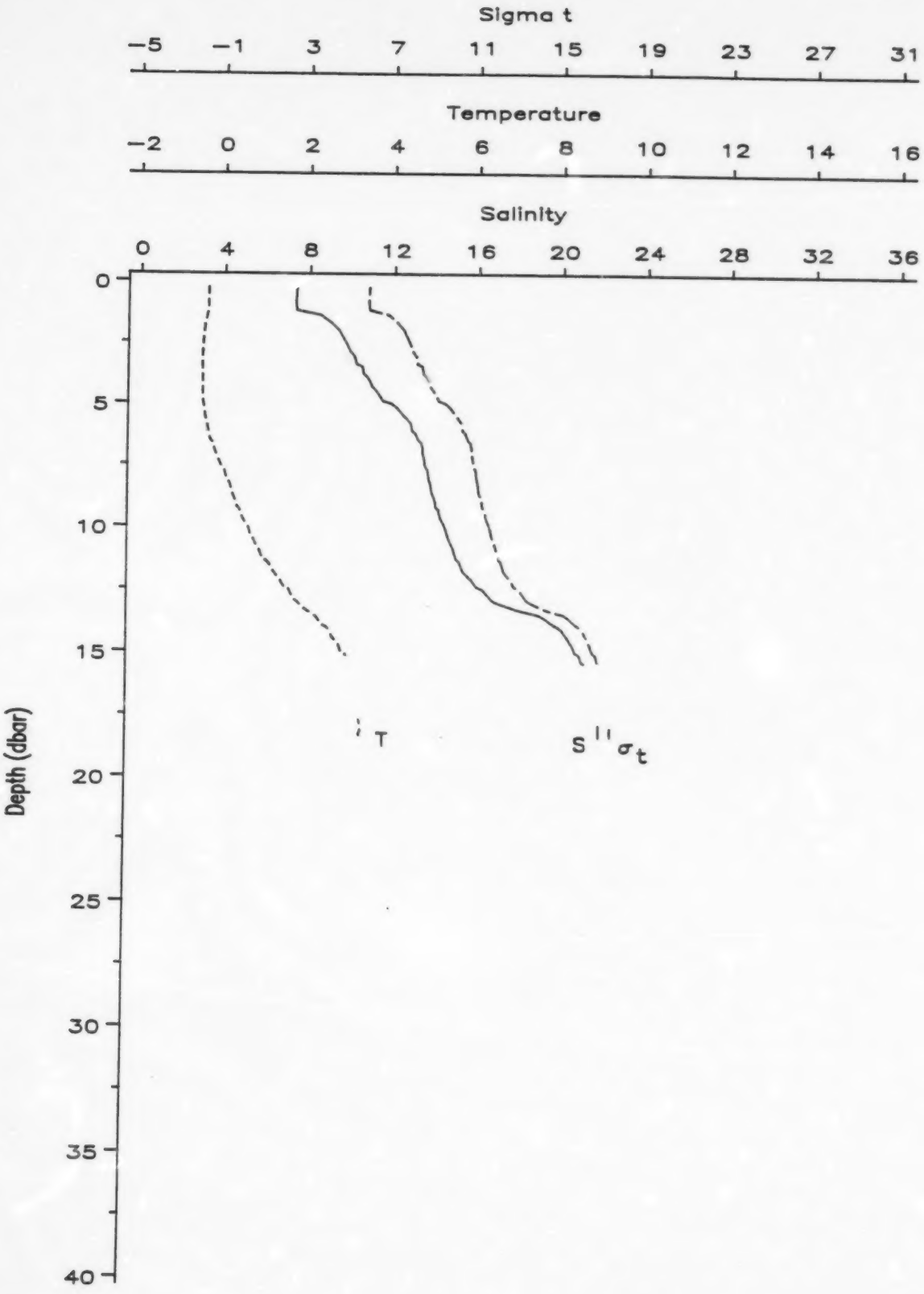

Table A8.11. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87M10, March 16, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.3	7.36	-0.40	1005.81	6.1	12.86	-0.39	1010.25	11.4	15.14	1.03	1012.10
0.4	7.35	-0.40	1005.80	6.2	13.01	-0.38	1010.37	11.5	15.18	1.08	1012.13
0.6	7.34	-0.40	1005.79	6.5	13.18	-0.34	1010.51	11.8	15.32	1.18	1012.25
0.8	7.33	-0.40	1005.78	6.6	13.31	-0.29	1010.62	12.0	15.56	1.27	1012.44
0.9	7.33	-0.40	1005.78	6.8	13.37	-0.25	1010.67	12.1	15.69	1.32	1012.54
1.2	7.36	-0.40	1005.81	7.0	13.37	-0.22	1010.67	12.4	15.96	1.43	1012.76
1.4	8.51	-0.43	1006.73	7.2	13.44	-0.16	1010.73	12.5	16.24	1.54	1012.98
1.7	9.00	-0.47	1007.13	7.5	13.49	-0.09	1010.77	12.9	16.66	1.66	1013.31
1.9	9.25	-0.49	1007.33	7.6	13.52	-0.06	1010.79	13.0	16.84	1.74	1013.46
2.0	9.37	-0.50	1007.43	7.7	13.61	0.00	1010.87	13.3	17.86	1.93	1014.27
2.3	9.57	-0.51	1007.59	8.1	13.67	0.06	1010.92	13.5	18.88	2.12	1015.08
2.5	9.72	-0.52	1007.71	8.2	13.74	0.11	1010.97	13.6	19.13	2.20	1015.27
2.9	9.94	-0.53	1007.89	8.3	13.75	0.14	1010.98	13.9	19.64	2.33	1015.67
3.1	10.14	-0.54	1008.05	8.6	13.81	0.18	1011.03	14.0	19.87	2.44	1015.85
3.4	10.22	-0.54	1008.11	8.8	13.91	0.23	1011.11	14.1	20.01	2.50	1015.96
3.5	10.49	-0.54	1008.33	9.0	13.99	0.28	1011.18	14.4	20.26	2.59	1016.16
3.8	10.56	-0.54	1008.39	9.2	14.02	0.31	1011.20	14.6	20.40	2.69	1016.27
3.9	10.70	-0.53	1008.50	9.3	14.13	0.37	1011.29	14.7	20.49	2.74	1016.33
4.1	10.86	-0.53	1008.63	9.7	14.26	0.45	1011.40	15.0	20.64	2.81	1016.45
4.3	10.95	-0.53	1008.70	9.9	14.39	0.53	1011.50	15.1	20.83	2.91	1016.60
4.5	11.17	-0.53	1008.88	10.1	14.49	0.60	1011.58	15.4	20.96	2.96	1016.70
4.9	11.48	-0.52	1009.13	10.3	14.55	0.63	1011.63	15.5	21.21	3.01	1016.89
5.0	11.87	-0.51	1009.45	10.5	14.64	0.70	1011.70	17.9	21.78	3.27	1017.33
5.2	12.17	-0.49	1009.69	10.7	14.75	0.76	1011.79	18.2	21.78	3.28	1017.33
5.5	12.47	-0.47	1009.94	10.9	14.85	0.83	1011.87	18.3	21.78	3.25	1017.33
5.6	12.58	-0.46	1010.02	11.0	14.88	0.86	1011.89	18.4	21.78	3.26	1017.33
5.8	12.80	-0.43	1010.20	11.3	15.00	0.93	1011.99				

STATION: 87M11 DATE: 16 March 1987

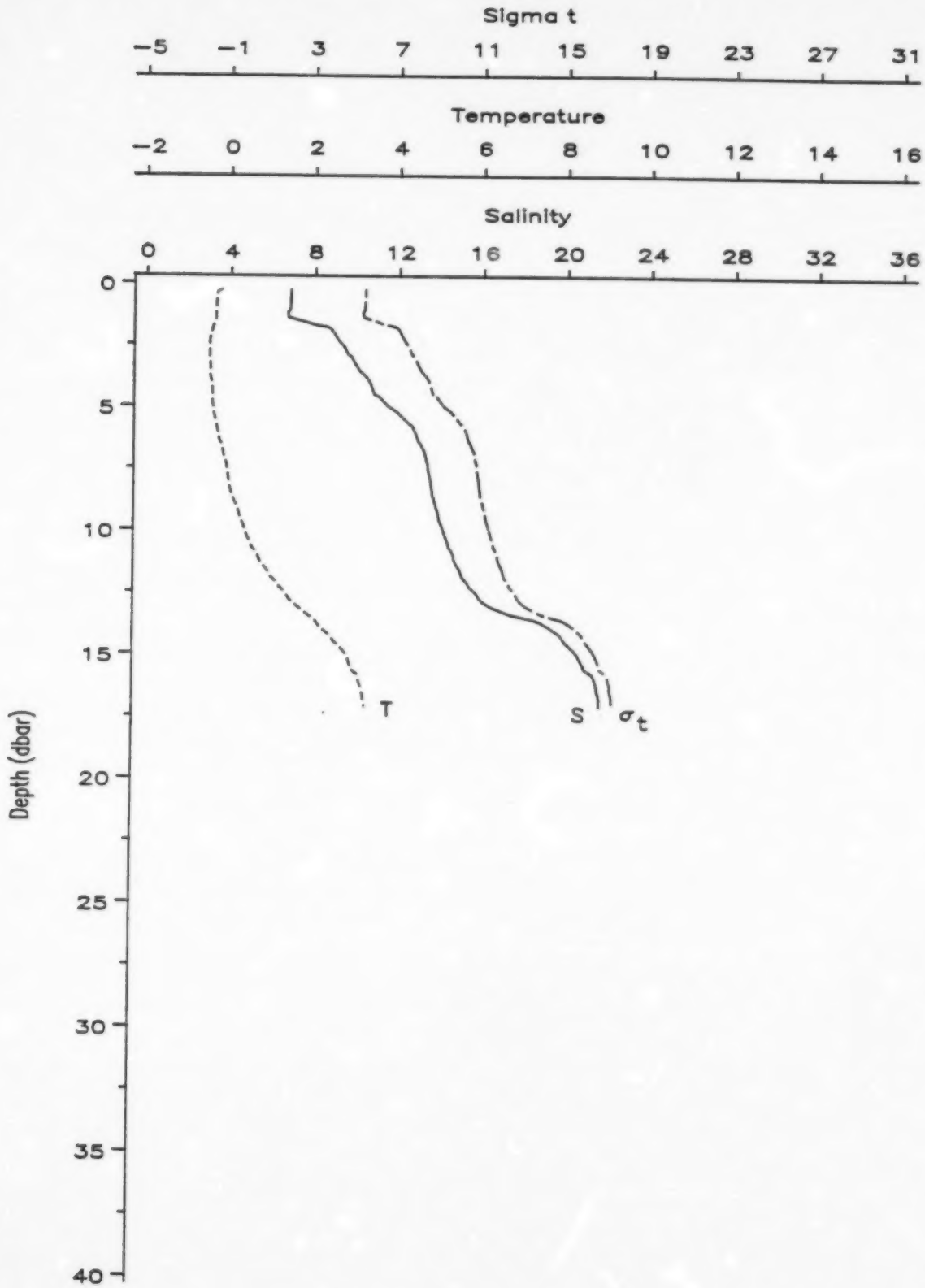

Table A8.12. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87M11, March 16, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.3	6.84	-0.22	1005.39	5.8	12.64	-0.33	1010.08	11.9	15.03	0.98	1012.01
0.4	6.84	-0.33	1005.39	6.1	12.80	-0.29	1010.21	12.1	15.25	1.11	1012.19
0.6	6.83	-0.34	1005.38	6.4	12.92	-0.26	1010.30	12.3	15.38	1.18	1012.29
0.7	6.82	-0.34	1005.37	6.5	13.02	-0.22	1010.39	12.5	15.65	1.31	1012.51
0.8	6.82	-0.35	1005.37	6.6	13.07	-0.20	1010.43	12.8	15.89	1.42	1012.70
1.1	6.81	-0.35	1005.36	6.8	13.21	-0.18	1010.54	12.9	16.01	1.47	1012.80
1.2	6.69	-0.36	1005.26	7.1	13.29	-0.14	1010.61	13.1	16.39	1.62	1013.10
1.4	6.72	-0.36	1005.29	7.2	13.31	-0.12	1010.62	13.4	17.32	1.84	1013.84
1.7	7.99	-0.40	1006.32	7.3	13.37	-0.10	1010.67	13.6	18.39	2.00	1014.69
1.8	8.61	-0.43	1006.82	7.6	13.40	-0.07	1010.70	13.7	18.73	2.05	1014.96
1.9	8.80	-0.45	1006.97	7.8	13.46	-0.05	1010.74	13.9	19.17	2.14	1015.31
2.2	9.02	-0.49	1007.15	7.9	13.49	-0.04	1010.77	14.0	19.33	2.21	1015.43
2.4	9.19	-0.51	1007.28	8.2	13.53	-0.02	1010.80	14.2	19.68	2.35	1015.71
2.6	9.41	-0.51	1007.46	8.4	13.58	0.01	1010.84	14.5	19.93	2.49	1015.90
2.9	9.57	-0.50	1007.59	8.6	13.59	0.03	1010.85	14.6	20.06	2.56	1016.00
3.0	9.75	-0.51	1007.73	8.7	13.66	0.07	1010.91	14.8	20.31	2.68	1016.19
3.3	9.93	-0.49	1007.88	8.9	13.72	0.12	1010.96	15.0	20.50	2.77	1016.34
3.5	10.08	-0.49	1008.00	9.2	13.83	0.19	1011.05	15.1	20.56	2.81	1016.39
3.6	10.17	-0.50	1008.08	9.6	13.93	0.26	1011.13	15.4	20.76	2.86	1016.54
3.8	10.43	-0.49	1008.29	9.8	14.04	0.32	1011.22	15.6	20.85	2.90	1016.61
4.0	10.60	-0.46	1008.42	10.1	14.15	0.37	1011.31	15.7	21.05	2.96	1016.77
4.1	10.66	-0.45	1008.47	10.3	14.24	0.42	1011.38	15.8	21.24	3.04	1016.92
4.5	10.82	-0.43	1008.60	10.5	14.34	0.49	1011.46	16.0	21.34	3.07	1016.99
4.6	11.05	-0.45	1008.79	10.7	14.39	0.52	1011.50	16.2	21.43	3.11	1017.06
4.7	11.15	-0.44	1008.87	10.8	14.50	0.58	1011.59	16.5	21.47	3.16	1017.09
5.0	11.48	-0.42	1009.14	11.0	14.60	0.66	1011.67	16.6	21.52	3.18	1017.13
5.2	11.87	-0.41	1009.45	11.2	14.64	0.70	1011.70	16.8	21.57	3.19	1017.17
5.5	12.22	-0.37	1009.74	11.4	14.76	0.77	1011.80	17.1	21.56	3.22	1017.16
5.7	12.49	-0.35	1009.95	11.6	14.91	0.88	1011.92				

STATION: 87M09 DATE: 17 March 1987

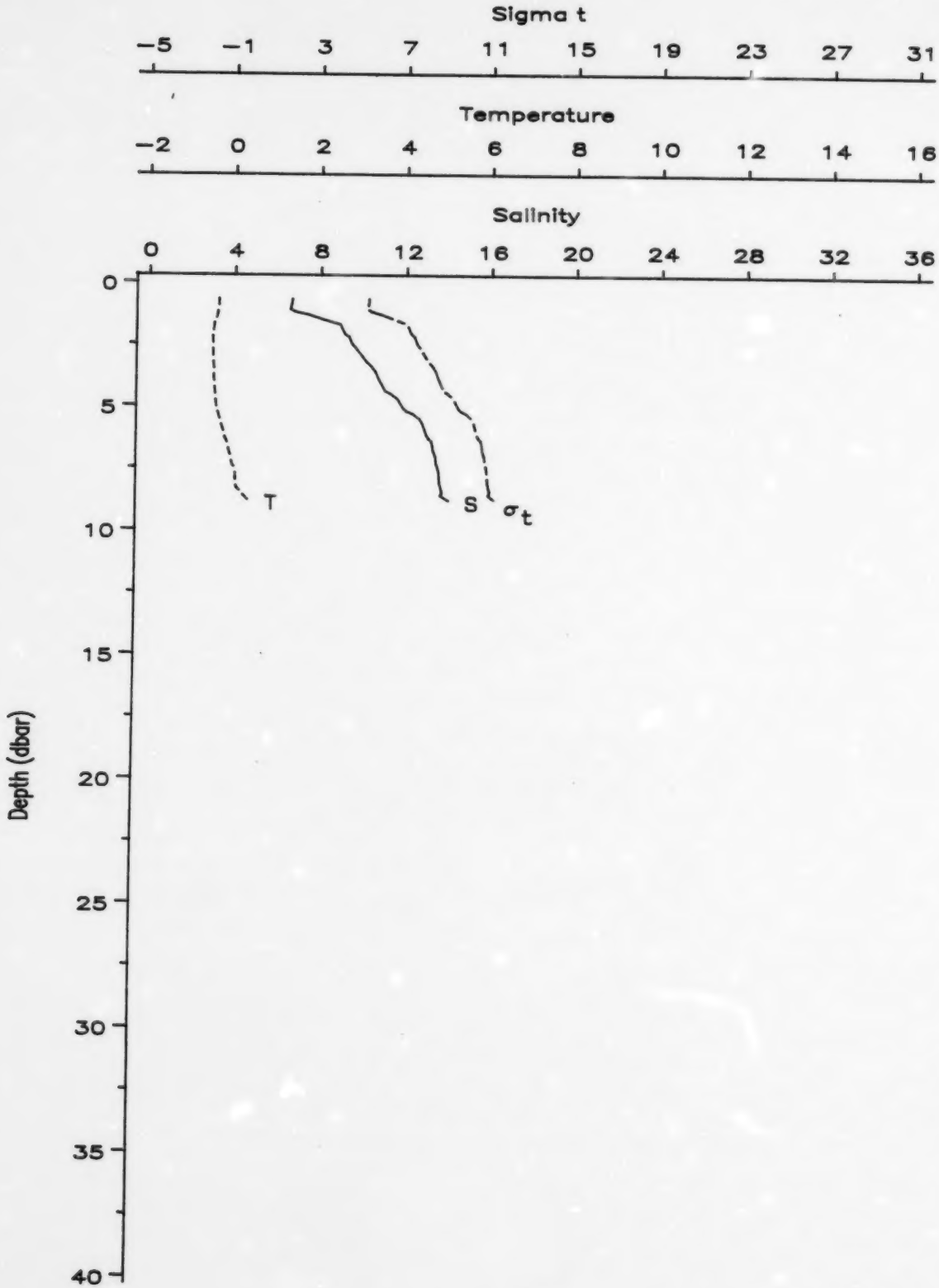

Table A8.13. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87M09, March 17, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.7	6.67	-0.38	1005.25	3.6	10.57	-0.49	1008.40	6.6	13.27	-0.15	1010.59
0.9	6.63	-0.38	1005.22	3.9	10.72	-0.49	1008.52	6.8	13.31	-0.12	1010.62
1.1	6.57	-0.39	1005.17	4.1	10.85	-0.47	1008.63	6.9	13.36	-0.11	1010.66
1.2	6.78	-0.40	1005.34	4.4	11.04	-0.46	1008.78	7.0	13.41	-0.08	1010.70
1.3	7.33	-0.41	1005.78	4.5	11.29	-0.45	1008.98	7.3	13.45	-0.05	1010.74
1.6	8.43	-0.45	1006.67	4.7	11.61	-0.44	1009.24	7.4	13.49	-0.04	1010.77
1.7	8.90	-0.49	1007.05	5.1	11.89	-0.42	1009.47	7.5	13.53	0.02	1010.80
2.1	9.13	-0.51	1007.23	5.2	12.03	-0.41	1009.58	7.7	13.58	0.03	1010.84
2.2	9.32	-0.52	1007.39	5.3	12.32	-0.38	1009.82	7.9	13.60	0.03	1010.86
2.5	9.47	-0.51	1007.51	5.5	12.64	-0.35	1010.08	8.1	13.62	0.04	1010.87
2.6	9.59	-0.51	1007.61	5.7	12.79	-0.31	1010.20	8.3	13.68	0.06	1010.92
2.7	9.68	-0.51	1007.68	5.9	12.87	-0.28	1010.26	8.4	13.72	0.11	1010.96
3.0	9.95	-0.51	1007.90	6.2	13.00	-0.22	1010.37	8.5	13.73	0.21	1010.97
3.2	10.14	-0.50	1008.05	6.3	13.08	-0.22	1010.43	8.6	13.66	0.21	1010.91
3.4	10.38	-0.49	1008.25	6.4	13.22	-0.18	1010.55	8.8	14.04	0.33	1011.22

STATION: 87THS DATE: 16 July 1987

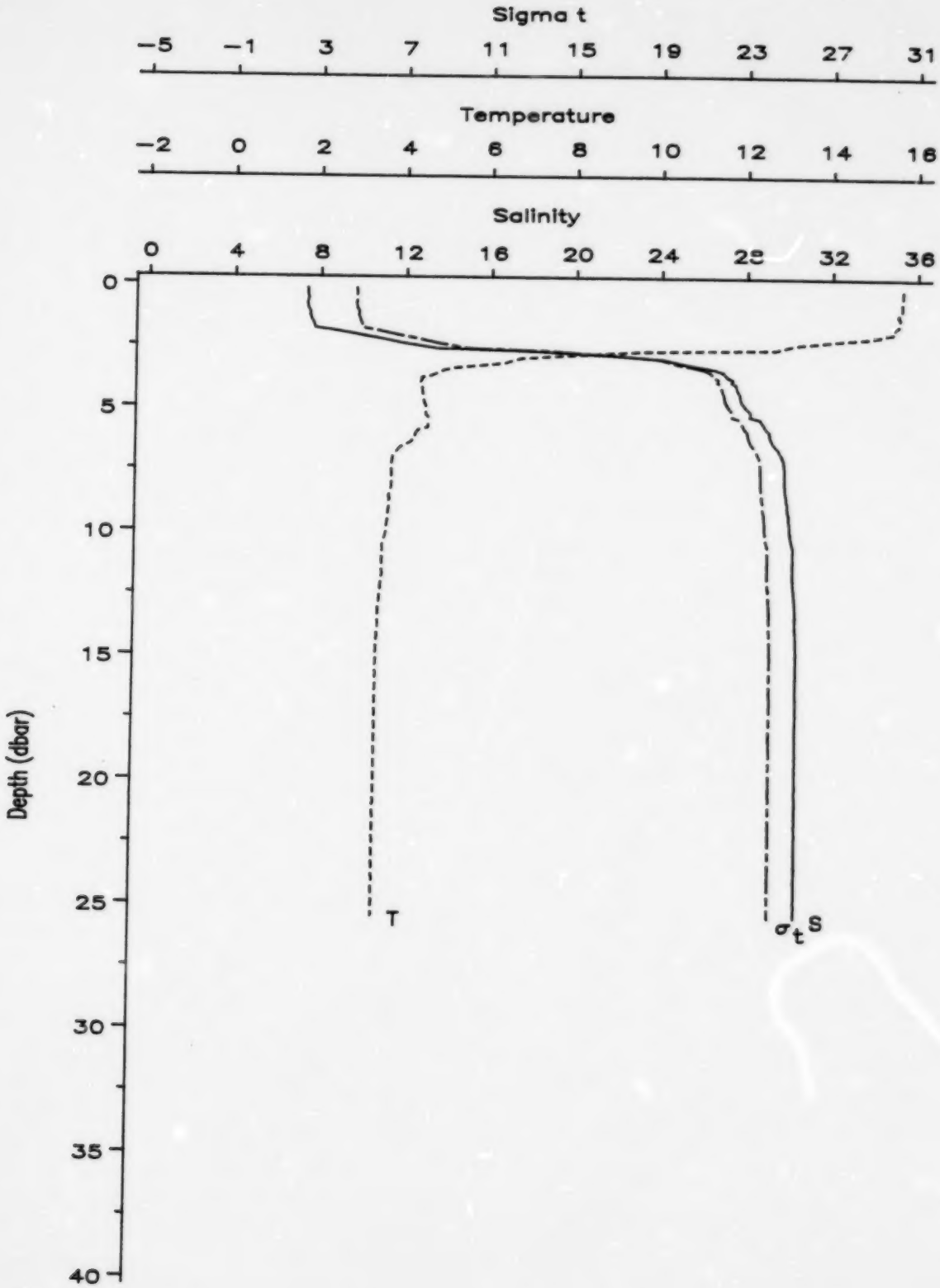

Table A8.14. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87THS, July 16, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	7.38	15.65	1004.67	7.1	29.76	3.70	1023.65	14.0	30.39	3.40	1024.17
0.3	7.39	15.64	1004.68	7.2	29.77	3.69	1023.66	14.3	30.41	3.39	1024.19
0.4	7.39	15.64	1004.68	7.4	29.80	3.68	1023.68	14.4	30.41	3.39	1024.19
0.6	7.43	15.62	1004.71	7.6	29.80	3.69	1023.68	14.6	30.41	3.38	1024.19
0.8	7.37	15.62	1004.66	7.7	29.81	3.69	1023.69	14.8	30.42	3.38	1024.20
1.0	7.41	15.62	1004.69	7.9	29.81	3.69	1023.69	14.9	30.42	3.37	1024.20
1.1	7.49	15.56	1004.77	8.0	29.81	3.70	1023.69	15.0	30.42	3.37	1024.20
1.2	7.51	15.53	1004.79	8.1	29.83	3.69	1023.70	15.1	30.43	3.38	1024.21
1.3	7.50	15.58	1004.77	8.3	29.84	3.68	1023.71	15.4	30.42	3.37	1024.20
1.5	7.59	15.54	1004.85	8.5	29.88	3.65	1023.75	15.5	30.42	3.38	1024.20
1.6	7.66	15.55	1004.90	8.6	29.90	3.63	1023.76	15.6	30.43	3.37	1024.21
1.8	7.74	15.40	1004.98	8.7	29.90	3.65	1023.76	15.8	30.42	3.38	1024.20
1.9	8.66	15.43	1005.68	8.8	29.95	3.63	1023.80	15.9	30.42	3.37	1024.20
2.1	9.97	14.92	1006.77	9.0	29.95	3.64	1023.80	16.0	30.42	3.37	1024.20
2.2	10.66	14.25	1007.42	9.1	29.96	3.63	1023.81	16.2	30.42	3.38	1024.20
2.4	11.88	13.14	1008.53	9.2	29.99	3.62	1023.84	16.4	30.42	3.37	1024.20
2.6	13.47	12.66	1009.83	9.3	30.02	3.62	1023.86	16.5	30.42	3.37	1024.20
2.7	18.09	9.53	1013.85	9.4	30.01	3.62	1023.85	16.6	30.43	3.38	1024.21
2.9	22.44	7.62	1017.47	9.6	30.05	3.60	1023.89	16.7	30.43	3.37	1024.21
3.0	24.14	6.70	1018.91	9.8	30.07	3.58	1023.90	16.9	30.44	3.37	1024.22
3.2	25.20	6.31	1019.79	10.0	30.08	3.58	1023.91	17.0	30.43	3.37	1024.21
3.4	26.52	5.13	1020.95	10.1	30.11	3.57	1023.94	17.2	30.43	3.37	1024.21
3.5	26.88	4.88	1021.26	10.3	30.14	3.53	1023.96	17.3	30.44	3.37	1024.22
3.7	27.09	4.62	1021.45	10.5	30.21	3.50	1024.02	17.5	30.43	3.37	1024.21
3.8	27.33	4.37	1021.66	10.6	30.24	3.50	1024.05	17.6	30.43	3.37	1024.21
3.9	27.27	4.38	1021.61	10.8	30.23	3.50	1024.04	17.7	30.43	3.37	1024.21
4.0	27.49	4.33	1021.79	11.1	30.23	3.49	1024.04	17.8	30.42	3.37	1024.20
4.2	27.55	4.39	1021.83	11.2	30.23	3.49	1024.04	18.0	30.42	3.37	1024.20
4.4	27.68	4.40	1021.93	11.3	30.22	3.49	1024.03	18.1	30.42	3.38	1024.20
4.5	27.70	4.42	1021.95	11.4	30.23	3.49	1024.04	18.2	30.42	3.37	1024.20
4.7	27.75	4.43	1021.99	11.6	30.23	3.49	1024.04	18.3	30.42	3.37	1024.20
4.8	27.84	4.44	1022.06	11.7	30.23	3.50	1024.04	18.4	30.43	3.37	1024.21
4.9	27.93	4.47	1022.13	11.8	30.23	3.49	1024.04	18.7	30.43	3.37	1024.21
5.1	28.18	4.48	1022.32	11.9	30.24	3.49	1024.05	19.0	30.44	3.37	1024.22
5.3	28.16	4.48	1022.31	12.2	30.27	3.46	1024.07	19.1	30.42	3.37	1024.20
5.4	28.64	4.55	1022.68	12.3	30.29	3.46	1024.09	19.2	30.44	3.37	1024.22
5.6	28.78	4.54	1022.79	12.4	30.30	3.45	1024.10	19.5	30.42	3.37	1024.20
5.8	28.94	4.53	1022.92	12.7	30.32	3.44	1024.11	19.6	30.44	3.37	1024.22
5.9	29.07	4.31	1023.04	12.9	30.34	3.43	1024.13	19.7	30.43	3.37	1024.21
6.0	29.09	4.26	1023.06	13.0	30.35	3.42	1024.14	19.9	30.44	3.37	1024.22
6.1	29.10	4.23	1023.08	13.2	30.36	3.41	1024.15	20.2	30.45	3.37	1024.22
6.2	29.15	4.22	1023.12	13.3	30.36	3.41	1024.15	20.3	30.45	3.37	1024.22
6.4	29.27	4.13	1023.22	13.4	30.37	3.41	1024.16	20.4	30.43	3.37	1024.21
6.6	29.49	3.90	1023.41	13.5	30.36	3.41	1024.15	20.6	30.43	3.37	1024.21
6.9	29.67	3.73	1023.57	13.8	30.37	3.41	1024.16	20.7	30.45	3.36	1024.23
7.0	29.73	3.71	1023.62	13.9	30.37	3.41	1024.16	20.9	30.45	3.37	1024.22

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Table A8.14. Station 87THS continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
21.0	30.45	3.35	1024.23	22.9	30.45	3.35	1024.23	24.4	30.46	3.35	1024.23
21.2	30.44	3.36	1024.22	23.0	30.45	3.35	1024.23	24.5	30.46	3.35	1024.23
21.3	30.45	3.35	1024.23	23.1	30.46	3.36	1024.23	24.6	30.46	3.35	1024.23
21.5	30.44	3.36	1024.22	23.3	30.46	3.35	1024.23	24.7	30.46	3.35	1024.23
21.7	30.46	3.36	1024.23	23.4	30.45	3.35	1024.23	24.9	30.45	3.36	1024.23
21.8	30.44	3.36	1024.22	23.5	30.46	3.36	1024.23	25.0	30.46	3.35	1024.23
21.9	30.45	3.36	1024.23	23.6	30.46	3.35	1024.23	25.1	30.46	3.35	1024.23
22.2	30.46	3.35	1024.23	23.9	30.46	3.35	1024.23	25.2	30.46	3.35	1024.23
22.3	30.46	3.35	1024.23	24.0	30.45	3.37	1024.22	25.4	30.46	3.36	1024.23
22.5	30.45	3.36	1024.23	24.1	30.45	3.36	1024.23	25.5	30.47	3.35	1024.24
22.8	30.45	3.35	1024.23	24.2	30.46	3.35	1024.23				

STATION: 87THN DATE: 16 July 1987

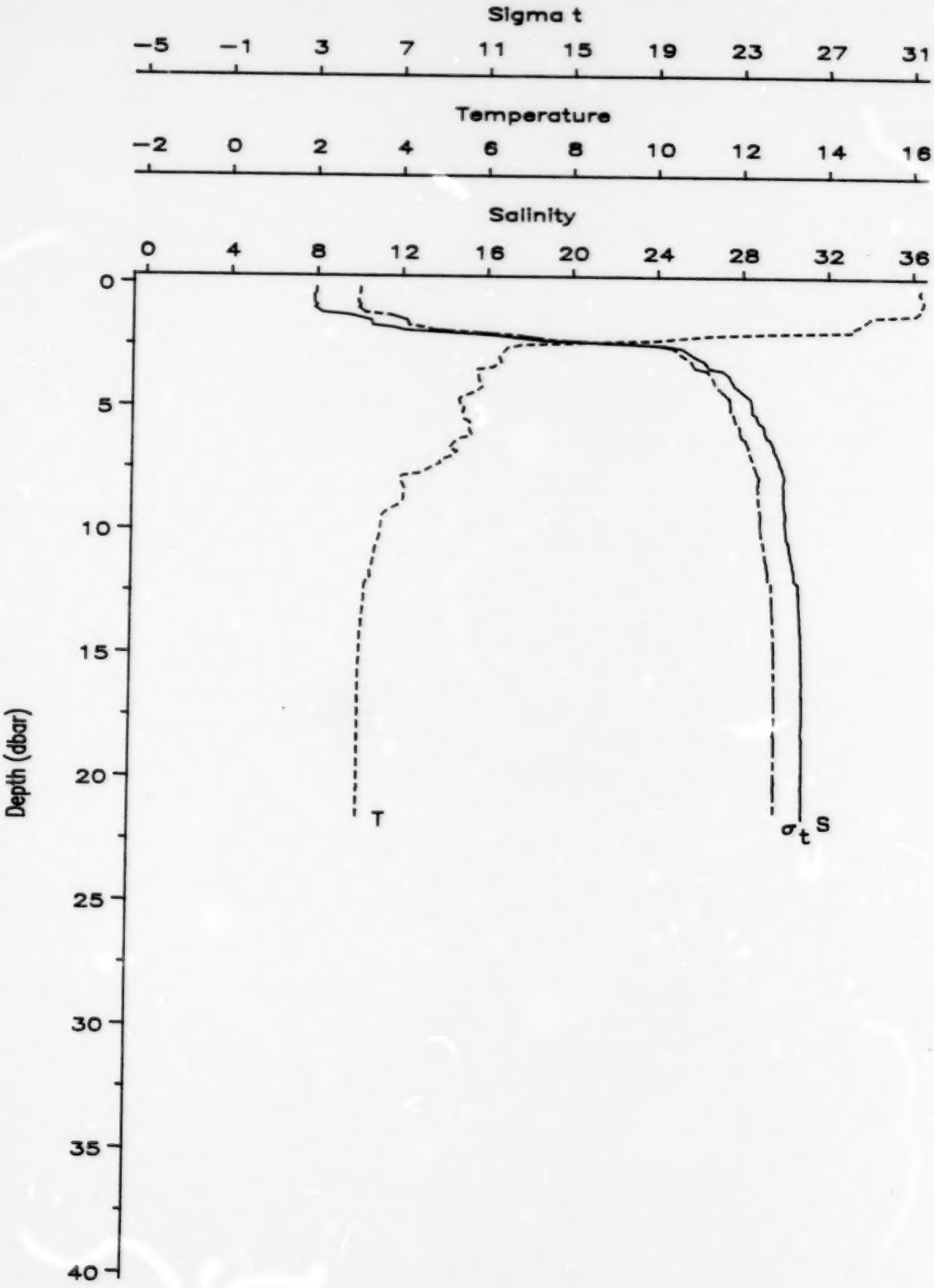

Table A8.15. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87THN, July 16, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	7.96	16.18	1005.02	6.6	29.53	5.16	1023.33	13.7	30.83	3.10	1024.55
0.3	7.95	16.14	1005.02	6.7	29.51	5.14	1023.31	13.9	30.84	3.10	1024.56
0.4	7.96	16.18	1005.02	6.8	29.59	5.31	1023.36	14.0	30.85	3.09	1024.57
0.5	7.85	16.25	1004.92	7.0	29.70	5.19	1023.46	14.1	30.86	3.08	1024.58
0.8	7.86	16.24	1004.93	7.2	29.80	4.90	1023.57	14.2	30.89	3.07	1024.60
0.9	8.01	16.18	1005.05	7.3	29.79	4.92	1023.56	14.5	30.89	3.07	1024.60
1.0	7.88	16.20	1004.95	7.4	29.88	4.79	1023.64	14.6	30.89	3.07	1024.60
1.2	8.25	16.06	1005.26	7.7	29.99	4.46	1023.76	14.7	30.90	3.07	1024.61
1.3	9.54	15.04	1006.42	7.8	30.05	4.04	1023.85	14.8	30.91	3.06	1024.62
1.5	10.54	14.89	1007.22	7.9	30.01	3.96	1023.82	15.0	30.91	3.06	1024.62
1.7	10.61	14.70	1007.30	8.1	29.98	4.02	1023.79	15.2	30.91	3.06	1024.62
1.8	11.58	14.58	1008.07	8.2	29.98	4.05	1023.79	15.3	30.92	3.05	1024.63
1.9	12.11	14.61	1008.47	8.3	30.00	4.08	1023.80	15.6	30.93	3.04	1024.63
2.0	14.17	12.62	1010.38	8.4	30.00	4.07	1023.80	15.7	30.93	3.04	1024.63
2.1	16.36	11.14	1012.29	8.5	30.00	4.07	1023.80	15.8	30.94	3.04	1024.64
2.3	18.48	9.99	1014.09	8.7	30.01	4.06	1023.81	16.0	30.94	3.04	1024.64
2.4	21.52	8.28	1016.68	8.8	30.00	4.05	1023.81	16.1	30.96	3.04	1024.66
2.5	24.36	6.81	1019.07	8.9	30.03	3.97	1023.84	16.3	30.95	3.04	1024.65
2.6	25.16	6.49	1019.74	9.0	30.02	3.94	1023.83	16.6	30.95	3.04	1024.65
2.9	25.68	6.32	1020.16	9.2	30.08	3.72	1023.90	16.7	30.96	3.04	1024.66
3.0	25.91	6.28	1020.35	9.3	30.08	3.64	1023.91	16.8	30.96	3.03	1024.66
3.1	26.17	6.31	1020.55	9.4	30.09	3.57	1023.92	16.9	30.96	3.04	1024.66
3.2	26.28	6.34	1020.63	9.6	30.07	3.56	1023.91	17.2	30.96	3.04	1024.66
3.4	26.44	6.14	1020.78	9.8	30.09	3.54	1023.92	17.3	30.96	3.04	1024.66
3.5	27.08	5.74	1021.33	10.0	30.11	3.52	1023.94	17.4	30.97	3.04	1024.67
3.7	27.37	5.80	1021.55	10.3	30.15	3.50	1023.97	17.5	30.97	3.04	1024.67
3.9	27.49	5.81	1021.65	10.4	30.21	3.48	1024.02	17.7	30.97	3.04	1024.67
4.0	27.58	5.84	1021.71	10.5	30.26	3.44	1024.07	17.8	30.97	3.04	1024.67
4.1	27.63	5.89	1021.75	10.7	30.29	3.42	1024.09	17.9	30.95	3.04	1024.65
4.2	27.78	5.89	1021.87	10.8	30 31	3.40	1024.11	18.2	30.93	3.04	1024.63
4.4	28.07	5.74	1022.11	10.9	30.34	3.39	1024.14	18.3	30.96	3.04	1024.66
4.6	28.37	5.42	1022.38	11.1	30.36	3.38	1024.15	18.4	30.98	3.04	1024.67
4.7	28.44	5.35	1022.44	11.3	30.44	3.35	1024.22	18.5	30.98	3.04	1024.67
4.9	28.47	5.38	1022.46	11.4	30.44	3.34	1024.22	18.6	30.97	3.04	1024.67
5.0	28.50	5.46	1022.48	11.5	30.47	3.31	1024.25	18.8	30.98	3.04	1024.67
5.1	28.49	5.47	1022.47	11.6	30.51	3.29	1024.28	18.9	30.98	3.04	1024.67
5.2	28.50	5.43	1022.48	11.8	30.53	3.29	1024.29	19.0	30.98	3.04	1024.67
5.3	28.68	5.46	1022.62	11.9	30.53	3.30	1024.29	19.3	30.98	3.04	1024.67
5.5	28.75	5.48	1022.67	12.0	30.55	3.28	1024.31	19.5	30.98	3.04	1024.67
5.6	28.82	5.59	1022.72	12.1	30.71	3.20	1024.45	19.7	30.99	3.04	1024.68
5.7	29.00	5.62	1022.86	12.2	30.74	3.17	1024.47	19.8	30.98	3.04	1024.67
5.8	29.06	5.59	1022.91	12.4	30.73	3.16	1024.46	19.9	30.98	3.04	1024.67
6.0	29.08	5.61	1022.92	12.5	30.75	3.16	1024.48	20.0	30.98	3.04	1024.67
6.1	29.14	5.65	1022.96	12.6	30.76	3.16	1024.49	20.1	30.99	3.04	1024.68
6.2	29.19	5.60	1023.01	12.9	30.77	3.15	1024.50	20.3	30.96	3.04	1024.66
6.3	29.36	5.33	1023.17	13.5	30.82	3.11	1024.54	20.4	30.97	3.06	1024.66

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Table A8.15. Station 87THN continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
20.5	30.98	3.04	1024.67	21.0	31.00	3.04	1024.69	21.5	30.99	3.04	1024.68
20.6	30.99	3.04	1024.68	21.2	30.99	3.04	1024.68	21.6	31.00	3.04	1024.69
20.8	30.99	3.04	1024.68	21.4	30.99	3.04	1024.68				

STATION: 87THS DATE: 30 August 1987

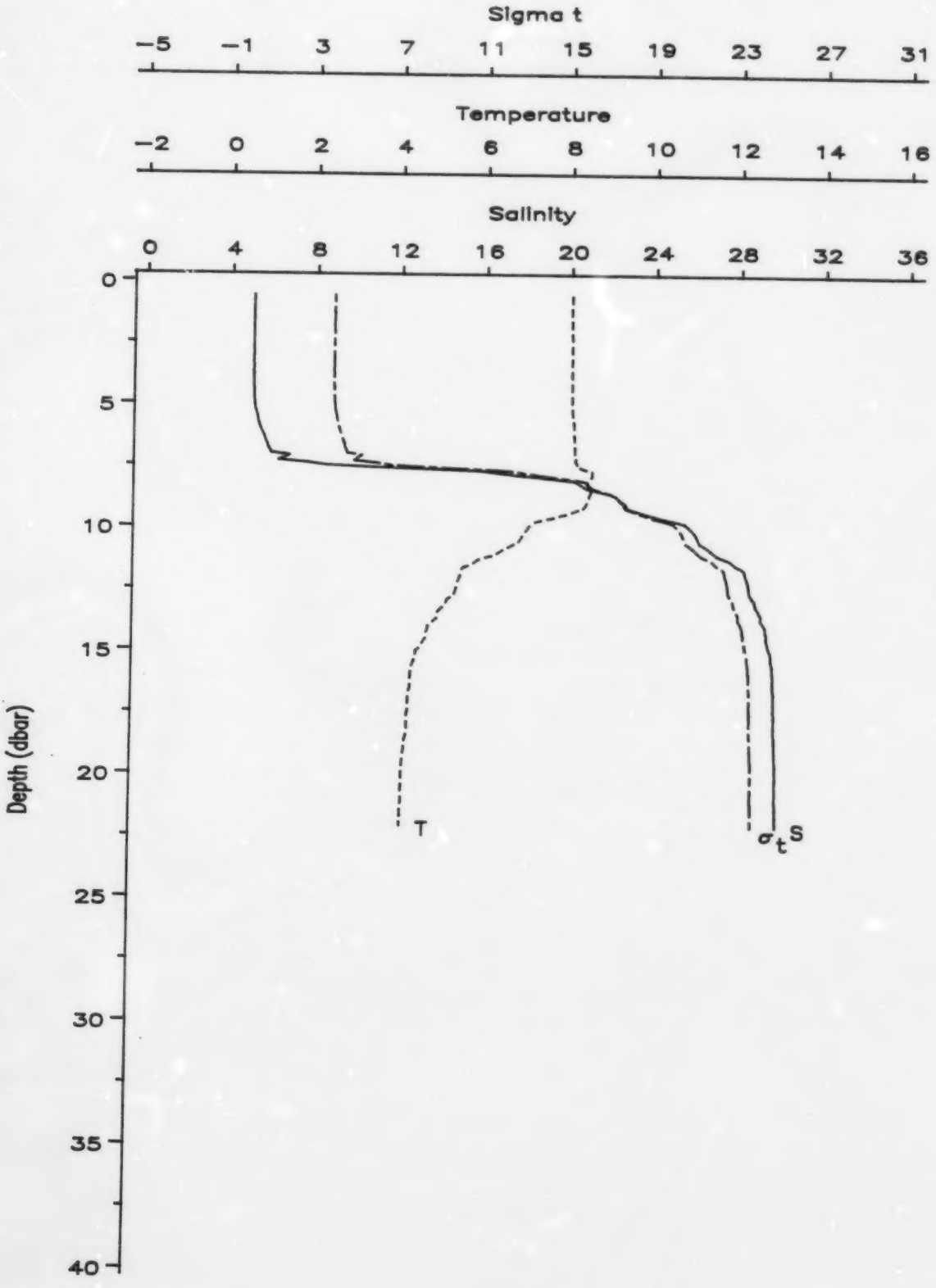

Table A8.16. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87THS, August 30, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.6	5.01	8.01	1003.80	7.0	5.87	8.10	1004.46	13.4	28.96	4.92	1022.90
0.7	5.01	8.01	1003.80	7.1	6.75	8.14	1005.15	13.5	29.04	4.86	1022.97
0.8	5.01	8.01	1003.80	7.3	6.20	8.11	1004.72	13.7	29.03	4.88	1022.96
1.0	5.01	8.00	1003.80	7.4	7.70	8.15	1005.89	13.8	29.11	4.80	1023.03
1.1	5.01	8.00	1003.80	7.5	8.49	8.16	1006.51	13.9	29.19	4.70	1023.10
1.2	5.00	8.00	1003.79	7.6	11.82	8.29	1009.10	14.0	29.25	4.68	1023.15
1.3	5.01	8.00	1003.80	7.7	15.69	8.51	1012.10	14.2	29.27	4.65	1023.17
1.5	5.01	8.00	1003.80	7.9	17.78	8.51	1013.73	14.3	29.32	4.61	1023.21
1.6	5.01	8.00	1003.80	8.1	20.21	8.39	1015.64	14.4	29.31	4.61	1023.21
1.8	5.00	8.01	1003.79	8.4	20.75	8.41	1016.06	14.5	29.31	4.62	1023.21
2.1	5.01	8.01	1003.80	8.5	21.28	8.49	1016.46	14.7	29.39	4.54	1023.27
2.2	5.01	8.01	1003.80	8.6	21.77	8.47	1016.85	14.8	29.41	4.50	1023.30
2.3	5.01	8.02	1003.79	8.7	22.15	8.44	1017.15	14.9	29.44	4.48	1023.32
2.6	5.00	8.02	1003.79	8.9	22.40	8.42	1017.35	15.0	29.51	4.40	1023.38
2.7	5.00	8.02	1003.79	9.0	22.58	8.38	1017.49	15.2	29.54	4.39	1023.41
2.8	5.00	8.01	1003.79	9.1	22.64	8.35	1017.54	15.3	29.54	4.37	1023.41
3.0	5.01	8.02	1003.79	9.2	22.73	8.30	1017.62	15.4	29.55	4.36	1023.42
3.1	5.00	8.02	1003.79	9.4	23.50	7.99	1018.26	15.5	29.58	4.33	1023.45
3.2	5.00	8.02	1003.79	9.6	24.36	7.58	1018.98	15.6	29.60	4.31	1023.46
3.3	5.00	8.02	1003.79	9.7	24.91	7.31	1019.45	15.8	29.61	4.30	1023.47
3.4	5.01	8.01	1003.80	9.8	25.39	7.11	1019.85	15.9	29.63	4.28	1023.49
3.6	5.01	8.02	1003.79	10.0	25.67	7.01	1020.08	16.0	29.64	4.28	1023.50
3.7	5.00	8.02	1003.79	10.2	25.89	6.93	1020.26	16.1	29.65	4.27	1023.51
3.8	5.01	8.01	1003.80	10.3	25.95	6.89	1020.31	16.3	29.64	4.28	1023.50
3.9	5.01	8.02	1003.79	10.6	26.12	6.77	1020.46	16.4	29.65	4.27	1023.51
4.1	5.01	8.01	1003.80	10.7	26.34	6.64	1020.65	16.5	29.65	4.27	1023.51
4.2	5.01	8.02	1003.79	10.8	26.51	6.54	1020.79	16.6	29.67	4.25	1023.53
4.3	5.02	8.02	1003.80	10.9	26.67	6.42	1020.93	16.7	29.69	4.24	1023.54
4.4	5.03	8.02	1003.81	11.1	26.96	6.25	1021.18	16.9	29.68	4.23	1023.54
4.5	5.03	8.01	1003.81	11.3	27.55	5.85	1021.69	17.0	29.69	4.23	1023.54
4.7	5.03	8.02	1003.81	11.5	27.84	5.67	1021.94	17.1	29.68	4.23	1023.54
4.8	5.04	8.02	1003.82	11.6	28.11	5.52	1022.17	17.3	29.69	4.23	1023.54
4.9	5.06	8.02	1003.83	11.7	28.23	5.45	1022.27	17.4	29.68	4.21	1023.55
5.0	5.07	8.02	1003.84	11.8	28.26	5.46	1022.29	17.5	29.70	4.20	1023.55
5.2	5.10	8.03	1003.86	12.0	28.33	5.41	1022.35	17.6	29.70	4.20	1023.55
5.3	5.13	8.03	1003.89	12.1	28.38	5.39	1022.39	17.7	29.70	4.20	1023.55
5.5	5.20	8.04	1003.94	12.2	28.41	5.36	1022.42	18.0	29.70	4.20	1023.55
5.8	5.27	8.07	1003.99	12.3	28.44	5.35	1022.44	18.1	29.70	4.21	1023.55
5.9	5.31	8.07	1004.03	12.4	28.46	5.34	1022.46	18.2	29.69	4.19	1023.56
6.0	5.36	8.08	1004.06	12.6	28.48	5.31	1022.48	18.4	29.71	4.17	1023.58
6.2	5.46	8.07	1004.14	12.7	28.54	5.28	1022.53	18.5	29.73	4.16	1023.58
6.3	5.52	8.08	1004.19	12.8	28.61	5.23	1022.59	18.6	29.73	4.15	1023.59
6.5	5.60	8.09	1004.25	12.9	28.72	5.13	1022.69	18.7	29.74	4.14	1023.60
6.6	5.66	8.10	1004.30	13.1	28.78	5.08	1022.74	19.0	29.75	4.13	1023.61
6.8	5.73	8.10	1004.35	13.2	28.82	5.04	1022.78	19.1	29.76	4.12	1023.61
6.9	5.81	8.10	1004.42	13.3	28.91	4.97	1022.85	19.3	29.76		

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Table A8.16. Station 87THS continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
19.5	29.78	4.11	1023.63	20.3	29.79	4.09	1023.64	21.2	29.81	4.08	1023.65
19.6	29.79	4.10	1023.64	20.5	29.79	4.09	1023.64	21.3	29.81	4.07	1023.65
19.7	29.79	4.10	1023.64	20.6	29.80	4.08	1023.64	21.4	29.81	4.07	1023.65
19.8	29.79	4.09	1023.64	20.7	29.80	4.08	1023.64	21.7	29.82	4.07	1023.66
19.9	29.79	4.09	1023.64	20.8	29.80	4.08	1023.64	21.8	29.81	4.07	1023.65
20.1	29.80	4.09	1023.64	21.0	29.78	4.09	1023.63	21.9	29.82	4.06	1023.66
20.2	29.79	4.09	1023.64	21.1	29.79	4.09	1023.64	22.1	29.82	4.06	1023.66

STATION: 87THN DATE: 30 August 1987

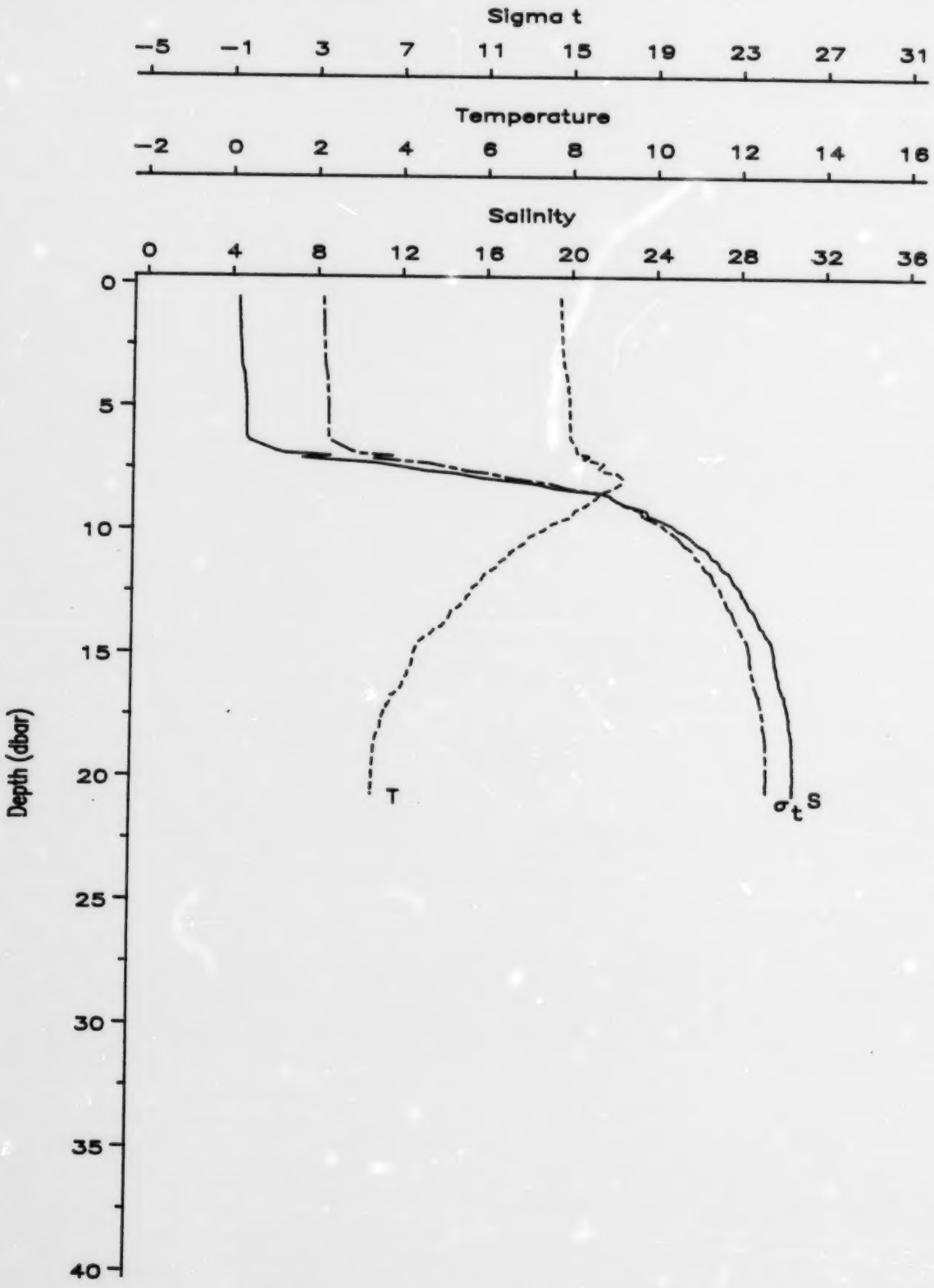

Table A8.17. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 87THN, August 30, 1987.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.6	4.32	7.73	1003.27	6.8	6.07	8.13	1004.62	13.1	28.46	5.40	1022.45
0.7	4.32	7.73	1003.27	6.9	6.50	8.17	1004.95	13.2	28.60	5.30	1022.58
0.8	4.32	7.73	1003.27	7.0	8.66	8.48	1006.61	13.3	28.71	5.21	1022.67
1.0	4.33	7.74	1003.28	7.1	7.34	8.29	1005.60	13.5	28.82	5.16	1022.76
1.1	4.34	7.74	1003.29	7.3	10.93	8.77	1008.36	13.7	28.92	5.09	1022.85
1.2	4.34	7.74	1003.29	7.5	12.44	8.66	1009.55	13.8	28.97	5.03	1022.90
1.3	4.35	7.74	1003.30	7.6	13.16	8.74	1010.10	13.9	29.01	4.99	1022.93
1.5	4.35	7.74	1003.30	7.7	14.57	9.09	1011.16	14.0	29.18	4.83	1023.08
1.6	4.36	7.75	1003.30	7.9	15.90	9.24	1012.18	14.2	29.27	4.73	1023.16
1.7	4.37	7.76	1003.31	8.1	18.20	9.18	1013.98	14.3	29.37	4.61	1023.25
1.8	4.37	7.76	1003.31	8.3	19.29	9.00	1014.85	14.4	29.45	4.55	1023.32
2.1	4.37	7.77	1003.31	8.4	20.21	8.85	1015.58	14.5	29.54	4.47	1023.40
2.2	4.39	7.78	1003.33	8.5	21.43	8.70	1016.55	14.7	29.61	4.41	1023.46
2.3	4.40	7.78	1003.33	8.6	21.82	8.64	1016.87	14.8	29.63	4.37	1023.48
2.5	4.42	7.78	1003.35	8.7	21.94	8.60	1016.96	14.9	29.65	4.35	1023.50
2.6	4.42	7.78	1003.35	8.9	22.40	8.43	1017.35	15.0	29.69	4.32	1023.54
2.7	4.44	7.79	1003.36	9.0	22.70	8.36	1017.59	15.2	29.70	4.31	1023.54
2.8	4.44	7.80	1003.36	9.1	23.17	8.24	1017.97	15.4	29.72	4.29	1023.56
3.0	4.44	7.80	1003.36	9.2	23.57	8.10	1018.30	15.5	29.75	4.27	1023.59
3.2	4.46	7.82	1003.38	9.4	23.67	8.03	1018.39	15.6	29.80	4.22	1023.63
3.3	4.46	7.82	1003.38	9.5	23.93	7.96	1018.60	15.8	29.82	4.19	1023.65
3.4	4.49	7.85	1003.40	9.6	24.27	7.77	1018.89	15.9	29.84	4.18	1023.67
3.6	4.55	7.87	1003.44	9.8	24.79	7.51	1019.33	16.0	29.91	4.10	1023.73
3.7	4.58	7.88	1003.47	10.0	25.07	7.37	1019.57	16.3	29.95	4.07	1023.77
3.8	4.60	7.90	1003.48	10.1	25.33	7.23	1019.79	16.4	30.00	4.03	1023.81
3.9	4.60	7.90	1003.48	10.3	25.67	7.01	1020.08	16.5	30.07	3.95	1023.87
4.1	4.62	7.94	1003.49	10.5	25.91	6.94	1020.28	16.6	30.09	3.91	1023.89
4.2	4.65	7.93	1003.52	10.6	26.05	6.86	1020.39	16.7	30.16	3.85	1023.95
4.3	4.63	7.92	1003.50	10.7	26.30	6.75	1020.60	16.7	30.21	3.79	1024.00
4.4	4.66	7.94	1003.53	10.8	26.46	6.67	1020.74	16.9	30.20	3.82	1023.99
4.4	4.67	7.94	1003.53	10.9	26.57	6.59	1020.83	17.1	30.29	3.72	1024.07
4.5	4.67	7.95	1003.53	11.1	26.68	6.52	1020.93	17.3	30.33	3.67	1024.10
4.7	4.68	7.96	1003.54	11.2	26.92	6.42	1021.13	17.3	30.36	3.63	1024.13
4.8	4.70	7.97	1003.56	11.3	27.04	6.34	1021.23	17.4	30.36	3.64	1024.13
4.9	4.70	7.96	1003.56	11.5	27.13	6.27	1021.31	17.5	30.38	3.61	1024.15
5.0	4.70	7.96	1003.56	11.6	27.26	6.17	1021.42	17.6	30.40	3.59	1024.17
5.3	4.70	7.97	1003.56	11.7	27.48	6.07	1021.61	17.6	30.43	3.56	1024.19
5.5	4.71	7.97	1003.56	11.8	27.57	5.98	1021.69	17.7	30.41	3.57	1024.18
5.7	4.71	7.97	1003.56	12.1	27.73	5.88	1021.83	18.0	30.43	3.56	1024.19
5.8	4.71	7.98	1003.56	12.2	27.84	5.81	1021.92	18.1	30.48	3.51	1024.24
5.9	4.71	7.98	1003.56	12.3	27.96	5.72	1022.03	18.4	30.55	3.45	1024.30
6.0	4.71	7.98	1003.56	12.4	28.07	5.68	1022.12	18.6	30.57	3.42	1024.32
6.2	4.72	7.98	1003.57	12.6	28.13	5.64	1022.17	18.8	30.57	3.41	1024.32
6.3	4.75	7.99	1003.59	12.7	28.26	5.57	1022.28	19.0	30.57	3.40	1024.32
6.4	4.88	8.04	1003.69	12.8	28.30	5.55	1022.31	19.2	30.60	3.39	1024.34
6.6	5.48	8.11	1004.16	12.9	28.38	5.49	1022.38	19.5	30.60	3.38	1024.34

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Table AB.17. Station 87THN continued.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
19.6	30.61	3.37	1024.35	20.3	30.62	3.37	1024.36	20.6	30.60	3.35	1024.35
19.7	30.61	3.38	1024.35	20.3	30.58	3.36	1024.33	20.6	30.60	3.37	1024.34
19.8	30.60	3.37	1024.34	20.5	30.62	3.36	1024.36	20.7	30.62	3.35	1024.36
19.9	30.62	3.37	1024.36	20.5	30.59	3.35	1024.34	20.7	30.59	3.35	1024.34
20.1	30.62	3.37	1024.36	20.5	30.59	3.35	1024.34	20.7	30.61	3.36	1024.35
20.2	30.62	3.36	1024.36	20.6	30.62	3.36	1024.36				

STATION: 88T02 DATE: 7 March 1988

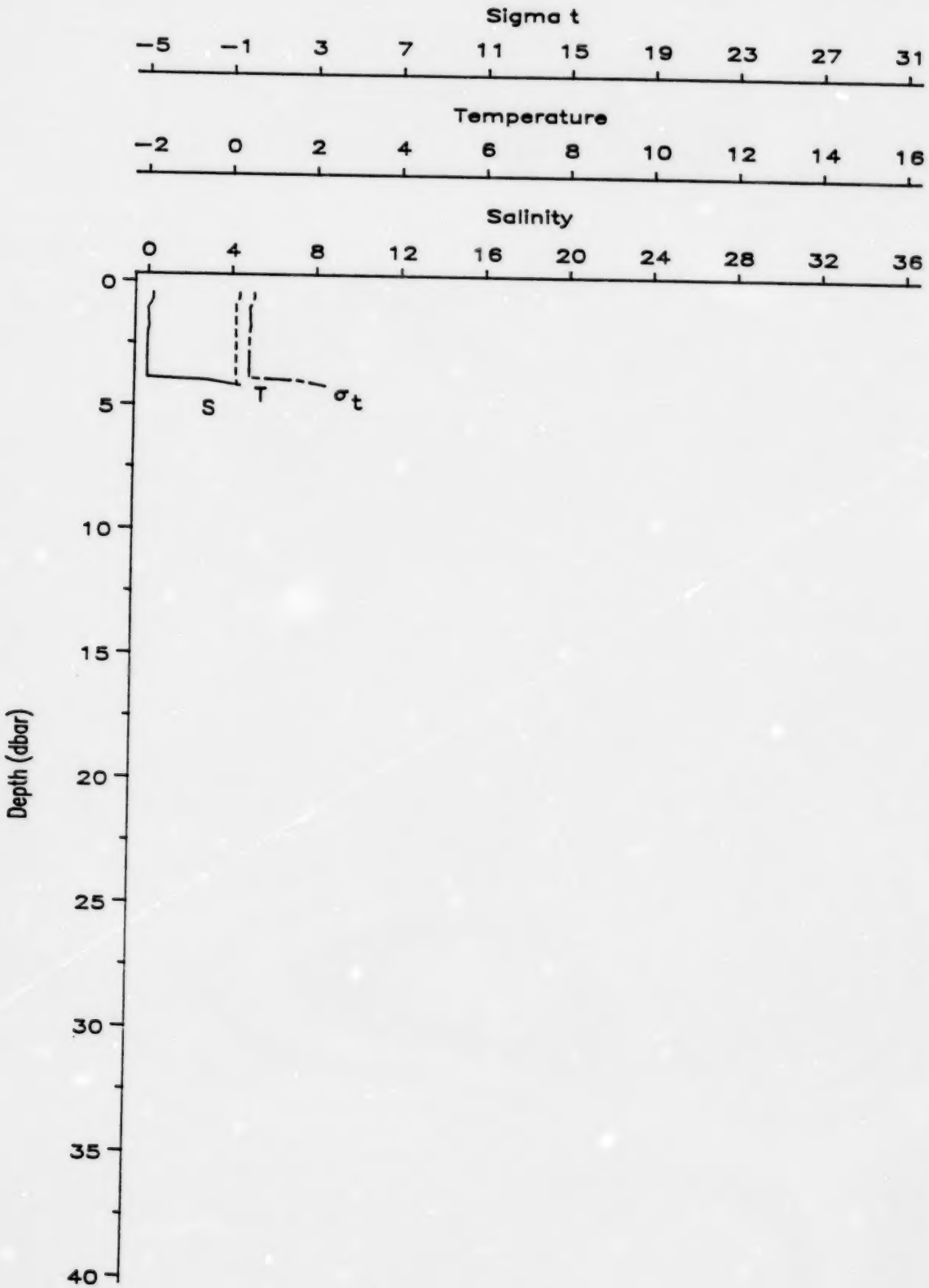

Table A9.1. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88T02, March 7, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.5	0.26	0.19	1000.07	1.9	0.06	0.10	999.90	3.1	0.00	0.11	999.85
0.7	0.26	0.18	1000.07	2.0	0.02	0.10	999.87	3.6	0.00	0.11	999.85
0.9	0.16	0.10	999.98	2.2	0.00	0.10	999.85	3.7	0.00	0.11	999.85
1.1	0.01	0.10	999.86	2.4	0.00	0.11	999.85	3.9	0.00	0.11	999.85
1.4	0.06	0.10	999.90	2.6	0.00	0.11	999.85	4.0	2.88	0.12	1002.20
1.5	0.04	0.10	999.88	2.8	0.00	0.11	999.85	4.2	4.42	0.15	1003.45
1.8	0.08	0.10	999.92	3.0	0.00	0.11	999.85				

STATION: 88T01 DATE: 7 March 1988

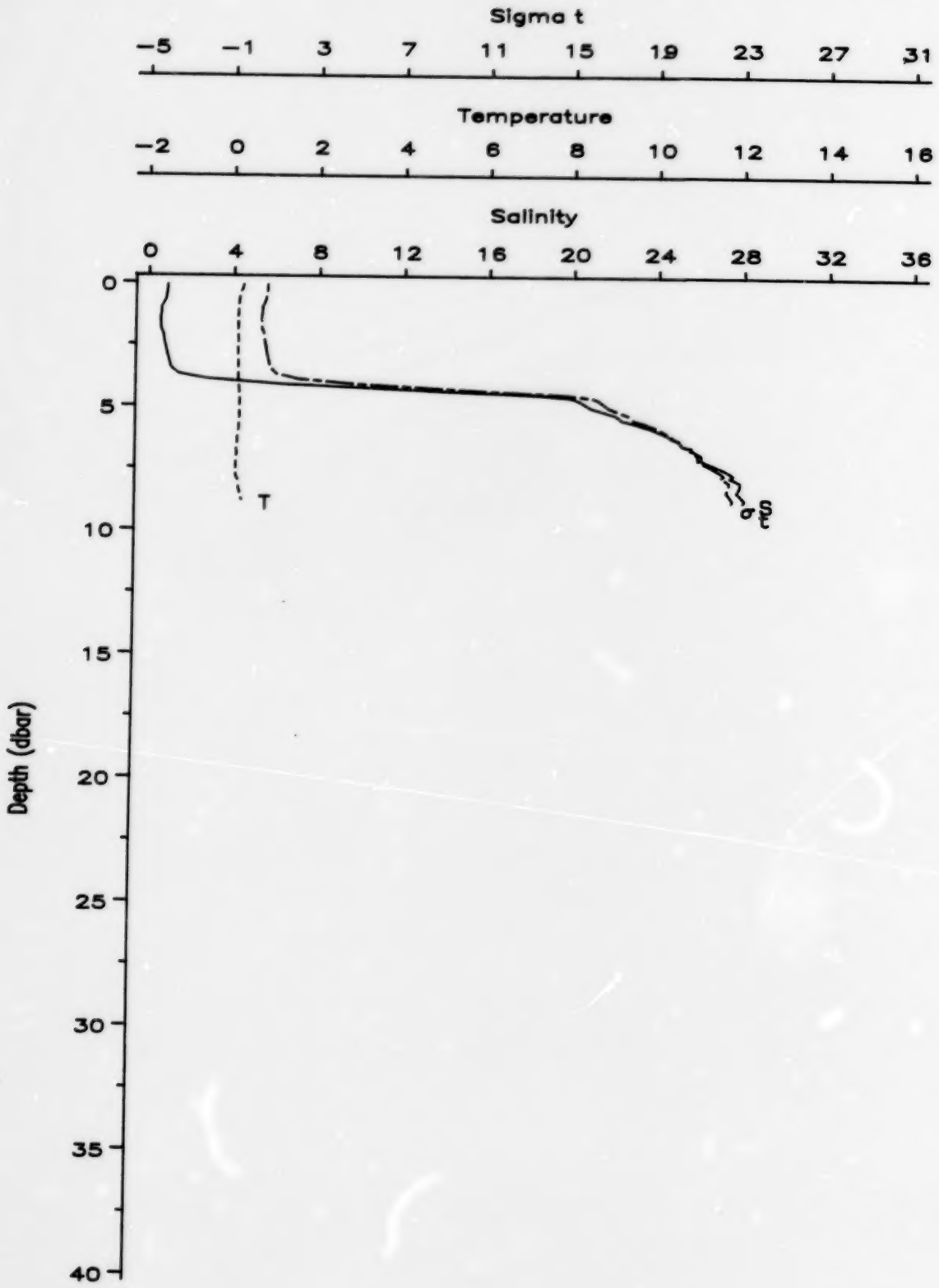

Table A9.2. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88T01, March 7, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	0.87	0.22	1000.57	3.4	1.03	0.11	1000.69	6.5	25.11	0.10	1020.13
0.3	0.85	0.19	1000.55	3.5	1.12	0.11	1000.77	6.6	25.55	0.09	1020.48
0.4	0.85	0.15	1000.55	3.7	1.43	0.11	1001.02	6.7	25.59	0.08	1020.51
0.5	0.82	0.14	1000.52	3.9	2.70	0.11	1002.05	6.9	26.00	0.09	1020.84
0.7	0.78	0.12	1000.49	4.1	6.20	0.12	1004.89	7.1	26.00	0.08	1020.85
1.0	0.59	0.11	1000.33	4.4	14.71	0.14	1011.75	7.4	26.86	0.07	1021.54
1.3	0.57	0.10	1000.32	4.5	18.39	0.14	1014.72	7.6	27.35	0.07	1021.93
1.4	0.54	0.10	1000.29	4.6	19.82	0.15	1015.87	7.7	27.52	0.06	1022.07
1.5	0.54	0.10	1000.29	4.7	20.21	0.15	1016.18	7.8	27.35	0.07	1021.93
1.6	0.55	0.10	1000.30	5.0	20.79	0.15	1016.65	7.9	27.64	0.09	1022.17
1.8	0.55	0.10	1000.30	5.3	21.99	0.15	1017.61	8.0	27.84	0.13	1022.33
1.9	0.58	0.10	1000.32	5.5	22.29	0.15	1017.86	8.2	27.81	0.13	1022.30
2.1	0.68	0.10	1000.41	5.6	22.82	0.14	1018.28	8.4	27.67	0.15	1022.19
2.4	0.73	0.11	1000.45	5.7	23.20	0.14	1018.59	8.5	27.82	0.17	1022.31
2.5	0.76	0.10	1000.47	5.8	23.62	0.14	1018.93	8.7	28.04	0.19	1022.48
2.6	0.79	0.10	1000.50	6.1	24.45	0.12	1019.60	8.8	27.98	0.22	1022.44
2.9	0.87	0.10	1000.56	6.2	24.61	0.11	1019.72				
3.2	0.98	0.11	1000.65	6.3	24.93	0.10	1019.98				

STATION: 88T08 DATE: 8 March 1988

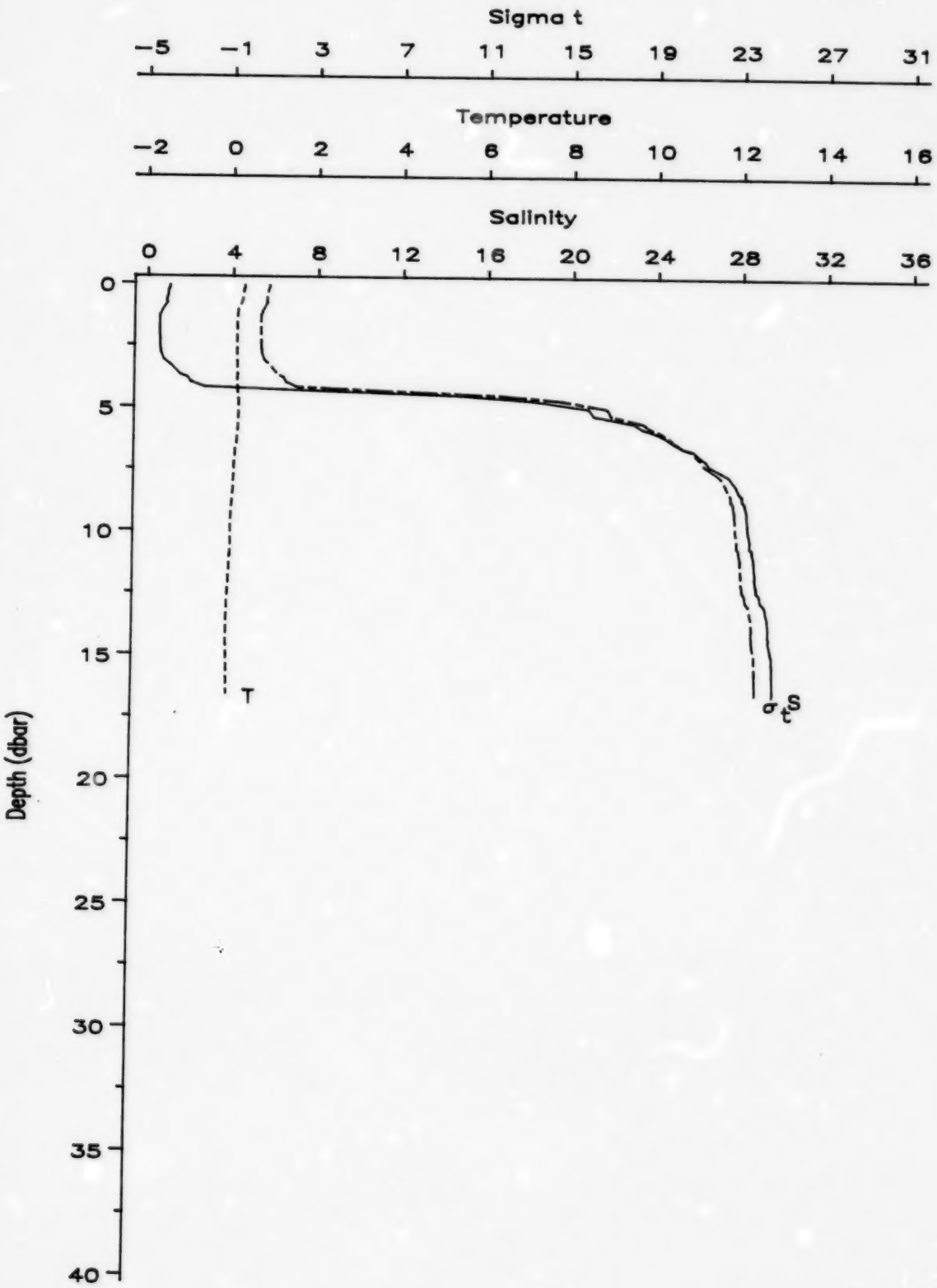

Table A9.3. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88T08, March 8, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	1.04	0.27	1000.71	5.4	21.68	0.15	1017.37	11.1	28.56	-0.04	1022.91
0.2	1.01	0.26	1000.69	5.6	22.88	0.14	1018.33	11.2	28.56	-0.04	1022.91
0.3	0.96	0.25	1000.64	5.8	23.26	0.14	1018.64	11.7	28.62	-0.05	1022.96
0.5	0.94	0.22	1000.63	5.9	23.67	0.13	1018.97	11.8	28.62	-0.06	1022.96
0.6	0.89	0.23	1000.59	6.1	24.24	0.12	1019.43	11.9	28.61	-0.06	1022.95
0.7	0.88	0.22	1000.58	6.4	24.79	0.11	1019.87	12.1	28.65	-0.06	1022.98
0.8	0.91	0.20	1000.60	6.6	25.23	0.10	1020.22	12.2	28.68	-0.06	1023.01
1.1	0.68	0.12	1000.41	6.7	25.68	0.08	1020.59	12.3	28.69	-0.07	1023.02
1.3	0.57	0.11	1000.32	6.9	25.95	0.07	1020.81	12.4	28.70	-0.07	1023.03
1.7	0.55	0.10	1000.30	7.1	26.27	0.07	1021.06	12.5	28.83	-0.08	1023.13
1.8	0.56	0.10	1000.31	7.3	26.43	0.05	1021.19	12.8	28.89	-0.08	1023.18
2.0	0.56	0.11	1000.31	7.7	27.34	0.05	1021.93	12.9	29.02	-0.09	1023.28
2.2	0.58	0.10	1000.32	8.0	27.60	0.03	1022.14	13.0	29.10	-0.09	1023.35
2.3	0.59	0.10	1000.33	8.1	27.69	0.04	1022.21	13.3	29.16	-0.09	1023.40
2.4	0.59	0.10	1000.33	8.4	27.86	0.03	1022.35	13.5	29.22	-0.10	1023.45
2.6	0.60	0.11	1000.34	8.5	27.99	0.02	1022.45	13.9	29.27	-0.10	1023.49
2.7	0.62	0.10	1000.36	8.7	28.00	0.02	1022.46	14.2	29.26	-0.10	1023.48
2.8	0.62	0.10	1000.36	8.8	28.12	0.01	1022.56	14.3	29.30	-0.10	1023.51
3.1	0.77	0.11	1000.48	9.0	28.15	0.00	1022.58	14.4	29.27	-0.10	1023.49
3.3	1.08	0.11	1000.73	9.1	28.20	0.00	1022.62	14.6	29.33	-0.10	1023.53
3.7	1.56	0.12	1001.13	9.2	28.22	0.00	1022.64	14.8	29.38	-0.09	1023.57
3.8	1.87	0.11	1001.38	9.3	28.21	-0.01	1022.63	14.9	29.39	-0.09	1023.58
4.0	2.06	0.11	1001.53	9.7	28.26	-0.02	1022.67	15.0	29.44	-0.09	1023.62
4.2	2.71	0.12	1002.06	9.9	28.27	-0.02	1022.68	15.3	29.44	-0.08	1023.62
4.3	6.50	0.12	1005.13	10.1	28.31	-0.02	1022.71	15.4	29.46	-0.08	1023.64
4.5	14.72	0.14	1011.76	10.3	28.37	-0.02	1022.76	15.6	29.46	-0.08	1023.64
4.7	18.18	0.15	1014.55	10.6	28.36	-0.02	1022.75	15.7	29.46	-0.08	1023.64
4.9	19.86	0.15	1015.90	10.7	28.50	-0.02	1022.86	16.4	29.50	-0.07	1023.67
5.0	20.73	0.16	1016.60	10.8	28.47	-0.02	1022.84	16.6	29.48	-0.07	1023.65
5.3	20.98	0.15	1016.80	11.0	28.54	-0.03	1022.90				

STATION: 88T04 DATE: 9 March 1988

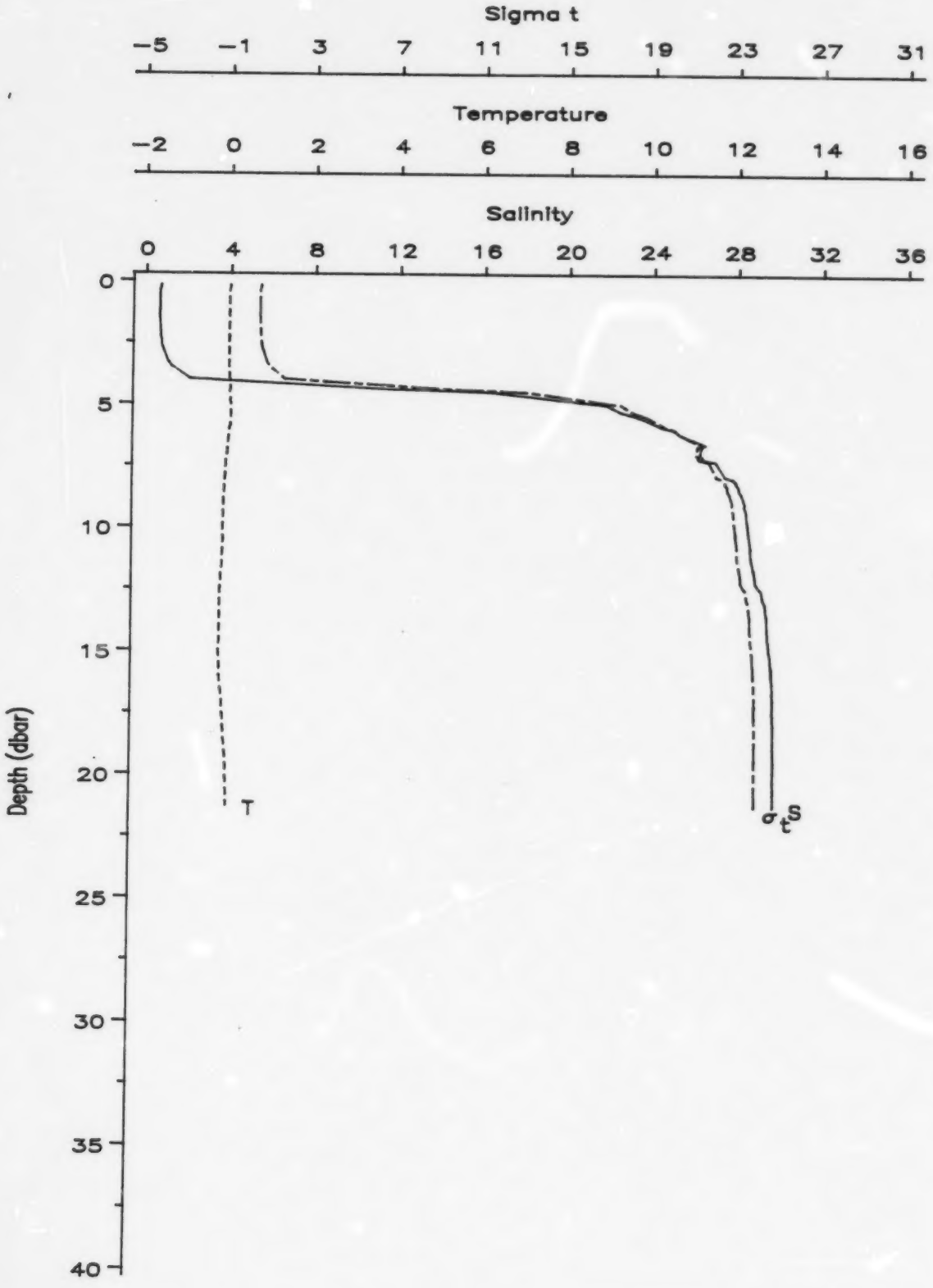

Table A9.4. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88T04, March 9, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.2	0.69	-0.02	1000.41	7.1	26.28	-0.07	1021.07	14.3	29.43	-0.22	1023.62
0.3	0.67	-0.02	1000.39	7.2	26.36	-0.08	1021.14	14.5	29.43	-0.22	1023.62
0.4	0.64	-0.04	1000.36	7.3	26.93	-0.10	1021.60	14.6	29.46	-0.22	1023.64
0.6	0.63	-0.04	1000.36	7.9	27.38	-0.11	1021.96	14.8	29.49	-0.24	1023.67
0.7	0.63	-0.04	1000.36	8.0	27.75	-0.12	1022.26	15.0	29.50	-0.24	1023.68
0.9	0.63	-0.04	1000.36	8.1	27.89	-0.12	1022.37	15.1	29.55	-0.24	1023.72
1.1	0.63	-0.04	1000.36	8.2	27.90	-0.13	1022.38	15.4	29.58	-0.22	1023.74
1.2	0.63	-0.04	1000.36	8.3	28.01	-0.13	1022.47	15.6	29.60	-0.22	1023.76
1.3	0.63	-0.04	1000.36	8.5	28.05	-0.13	1022.50	15.7	29.62	-0.22	1023.77
1.4	0.61	-0.04	1000.34	8.6	28.14	-0.13	1022.58	15.9	29.63	-0.22	1023.78
1.5	0.63	-0.04	1000.36	8.8	28.23	-0.14	1022.65	16.0	29.63	-0.22	1023.78
1.9	0.66	-0.04	1000.38	9.0	28.31	-0.15	1022.71	16.3	29.67	-0.20	1023.81
2.1	0.68	-0.04	1000.40	9.1	28.28	-0.14	1022.69	16.6	29.68	-0.18	1023.82
2.3	0.68	-0.04	1000.40	9.2	28.33	-0.15	1022.73	16.7	29.67	-0.17	1023.81
2.4	0.72	-0.04	1000.43	9.4	28.39	-0.15	1022.78	[illegible]9	29.69	-0.16	1023.83
2.6	0.73	-0.05	1000.44	9.7	28.42	-0.15	1022.80	[illegible]	29.69	-0.15	1023.83
2.7	0.76	-0.04	1000.46	9.8	28.44	-0.15	1022.82	[illegible]	29.70	-0.15	1023.84
2.8	0.81	-0.04	1000.50	9.9	28.46	-0.16	1022.83	17.3	29.69	-0.14	1023.83
2.9	0.85	-0.04	1000.54	10.1	28.49	-0.16	1022.86	17.5	29.69	-0.14	1023.83
3.2	0.99	-0.04	1000.65	10.2	28.50	-0.16	1022.87	17.6	29.71	-0.13	1023.84
3.3	1.04	-0.04	1000.69	10.3	28.52	-0.16	1022.88	17.7	29.70	-0.13	1023.83
3.5	1.21	-0.04	1000.83	10.5	28.55	-0.15	1022.91	17.8	29.71	-0.12	1023.84
4.0	2.10	-0.02	1001.56	10.8	28.60	-0.17	1022.95	18.0	29.72	-0.12	1023.85
4.1	4.51	-0.02	1003.52	10.9	28.59	-0.16	1022.94	18.1	29.72	-0.12	1023.85
4.4	11.70	0.00	1009.33	11.2	28.62	-0.17	1022.96	18.2	29.72	-0.11	1023.85
4.5	16.23	-0.02	1012.98	11.3	28.64	-0.17	1022.98	18.6	29.72	-0.10	1023.85
4.8	19.48	0.00	1015.59	11.7	28.75	-0.18	1023.07	18.7	29.72	-0.09	1023.85
4.9	20.55	-0.01	1016.46	11.8	28.78	-0.20	1023.09	18.9	29.72	-0.08	1023.85
5.0	21.74	0.01	1017.42	12.0	28.82	-0.20	1023.13	19.2	29.73	-0.06	1023.86
5.1	21.97	0.01	1017.60	12.2	28.83	-0.20	1023.13	19.4	29.74	-0.05	1023.86
5.3	22.44	0.01	1017.98	12.4	28.98	-0.21	1023.26	19.5	29.74	-0.05	1023.86
5.4	22.90	0.01	1018.35	12.5	29.11	-0.22	1023.36	19.7	29.74	-0.04	1023.86
5.5	23.29	0.01	1018.66	12.8	29.18	-0.22	1023.42	19.9	29.74	-0.04	1023.86
5.9	24.40	0.00	1019.56	12.9	29.20	-0.22	1023.43	20.2	29.73	-0.04	1023.86
6.0	24.91	-0.02	1019.97	13.0	29.26	-0.22	1023.48	20.3	29.73	-0.03	1023.85
6.2	25.23	-0.02	1020.23	13.1	29.31	-0.22	1023.52	20.6	29.74	-0.03	1023.86
6.4	25.83	-0.04	1020.71	13.3	29.33	-0.22	1023.54	20.8	29.74	-0.02	1023.86
6.6	26.44	-0.05	1021.20	13.5	29.36	-0.22	1023.56	21.0	29.75	-0.03	1023.87
6.7	26.25	-0.06	1021.05	13.6	29.39	-0.22	1023.59	21.2	29.75	-0.02	1023.87
7.0	26.16	-0.07	1020.98	14.1	29.41	-0.22	1023.60	21.3	29.74	-0.02	1023.86

STATION: 88T09 DATE: 10 March 1988

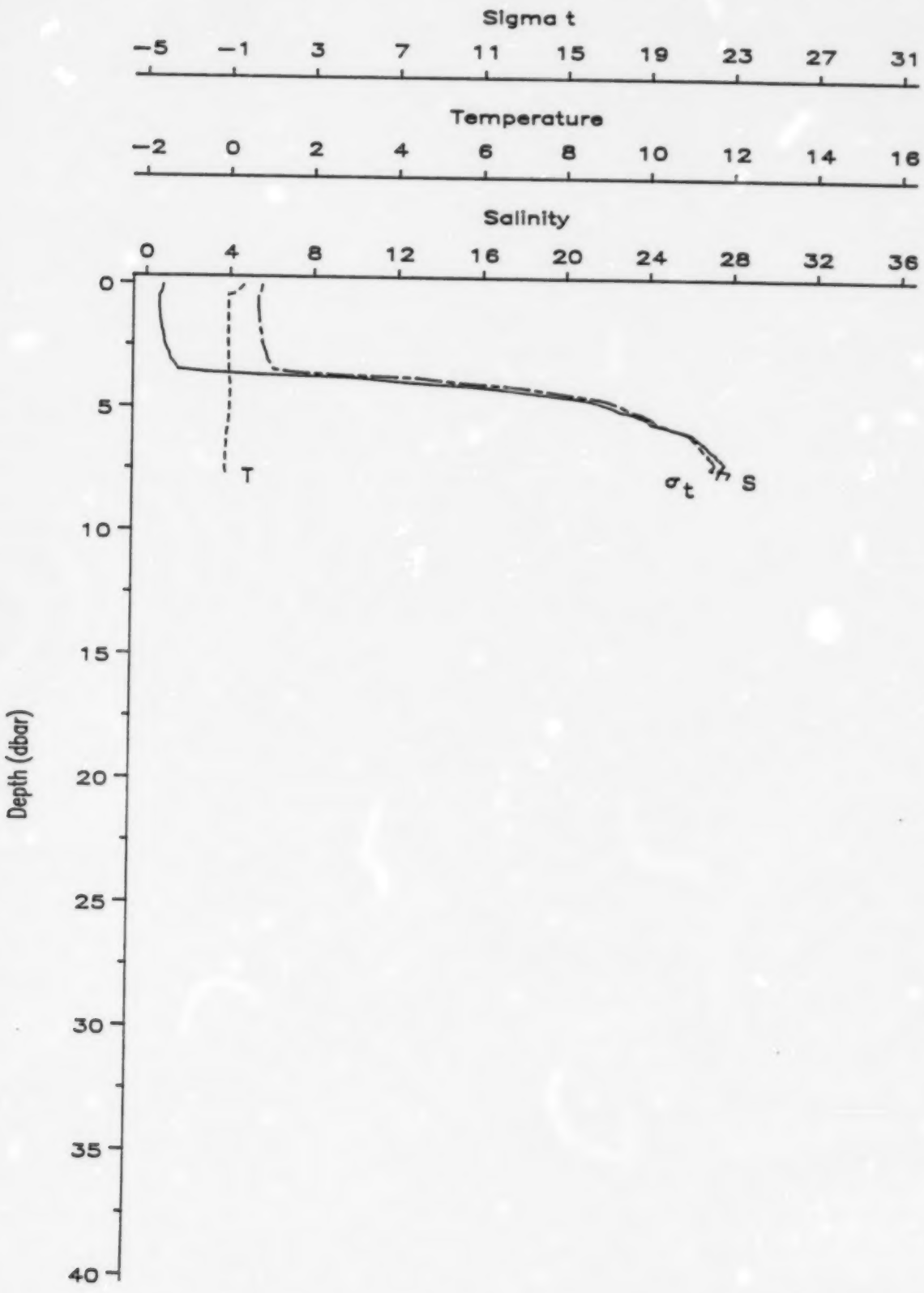

Table A9.5. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88T09, March 10, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	0.82	0.32	1000.53	2.8	1.11	-0.03	1000.75	5.6	24.10	-0.02	1019.32
0.4	0.74	0.14	1000.46	3.1	1.19	-0.03	1000.82	5.7	24.72	-0.02	1019.82
0.5	0.63	-0.04	1000.36	3.2	1.32	-0.02	1000.92	5.8	25.09	-0.03	1020.11
0.9	0.63	-0.04	1000.36	3.5	1.56	-0.02	1001.12	5.9	25.60	-0.04	1020.53
1.0	0.63	-0.04	1000.36	3.6	2.78	-0.01	1002.11	6.0	26.02	-0.06	1020.86
1.1	0.65	-0.04	1000.37	3.7	5.38	-0.01	1004.22	6.4	26.62	-0.07	1021.35
1.4	0.68	-0.04	1000.40	3.8	9.95	0.00	1007.91	6.7	26.97	-0.08	1021.63
1.5	0.70	-0.04	1000.41	4.0	12.76	0.01	1010.18	6.8	27.18	-0.08	1021.80
1.6	0.72	-0.04	1000.43	4.1	15.09	0.02	1012.06	6.9	27.21	-0.09	1021.82
1.7	0.74	-0.04	1000.45	4.2	16.47	0.02	1013.17	7.0	27.40	-0.09	1021.98
1.9	0.77	-0.04	1000.47	4.6	20.66	0.02	1016.55	7.2	27.59	-0.09	1022.13
2.0	0.83	-0.04	1000.52	4.7	21.31	0.02	1017.07	7.3	27.50	-0.09	1022.06
2.1	0.84	-0.04	1000.53	4.9	22.10	0.01	1017.70	7.4	27.31	-0.10	1021.91
2.2	0.87	-0.04	1000.55	5.1	22.63	0.01	1018.13	7.5	27.87	-0.10	1022.36
2.4	0.88	-0.04	1000.56	5.2	23.23	0.00	1018.62	7.7	27.72	-0.08	1022.24
2.6	0.98	-0.03	1000.64	5.3	23.50	0.00	1018.83				
2.7	1.02	-0.03	1000.68	5.4	23.86	-0.01	1019.12				

STATION: 88T05 DATE: 10 March 1988

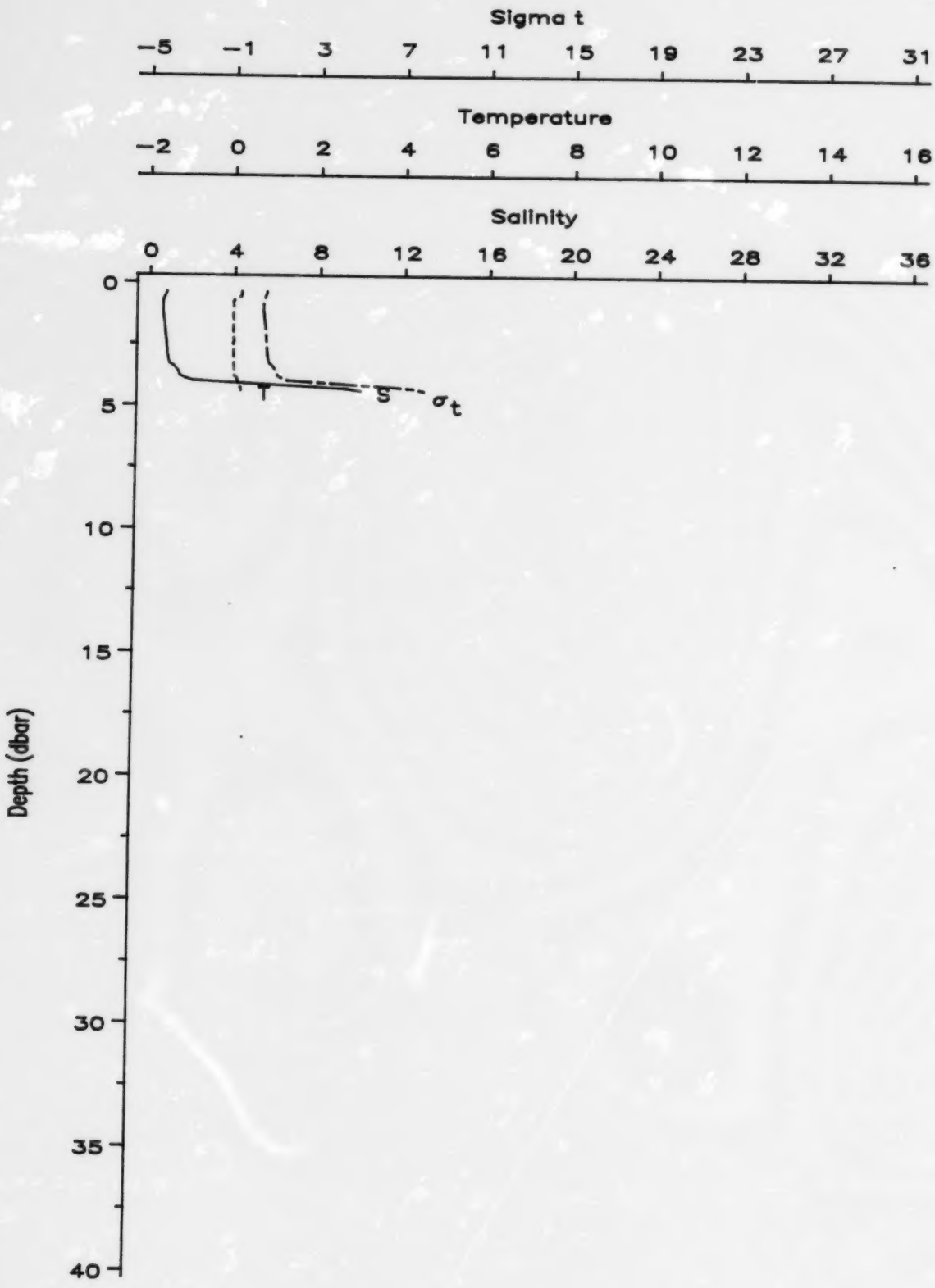

Table A9.6. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88T05, March 10, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.4	0.79	0.16	1000.50	1.9	0.72	-0.04	1000.43	3.3	0.94	-0.02	1000.61
0.6	0.69	0.14	1000.42	2.1	0.74	-0.04	1000.45	3.4	1.13	-0.02	1000.77
0.7	0.63	0.00	1000.36	2.3	0.77	-0.03	1000.47	3.6	1.36	-0.02	1000.95
0.8	0.61	-0.04	1000.34	2.4	0.78	-0.02	1000.48	3.8	1.42	-0.01	1001.00
1.2	0.60	-0.03	1000.33	2.5	0.80	-0.04	1000.50	3.9	1.68	0.05	1001.22
1.3	0.63	-0.04	1000.36	2.8	0.83	-0.03	1000.52	4.0	2.02	0.06	1001.50
1.4	0.63	-0.04	1000.36	2.9	0.83	-0.03	1000.52	4.3	9.21	0.14	1007.32
1.7	0.69	-0.03	1000.41	3.0	0.85	-0.03	1000.54	4.4	9.93	0.15	1007.90

STATION: 88M07 DATE: 13 March 1988

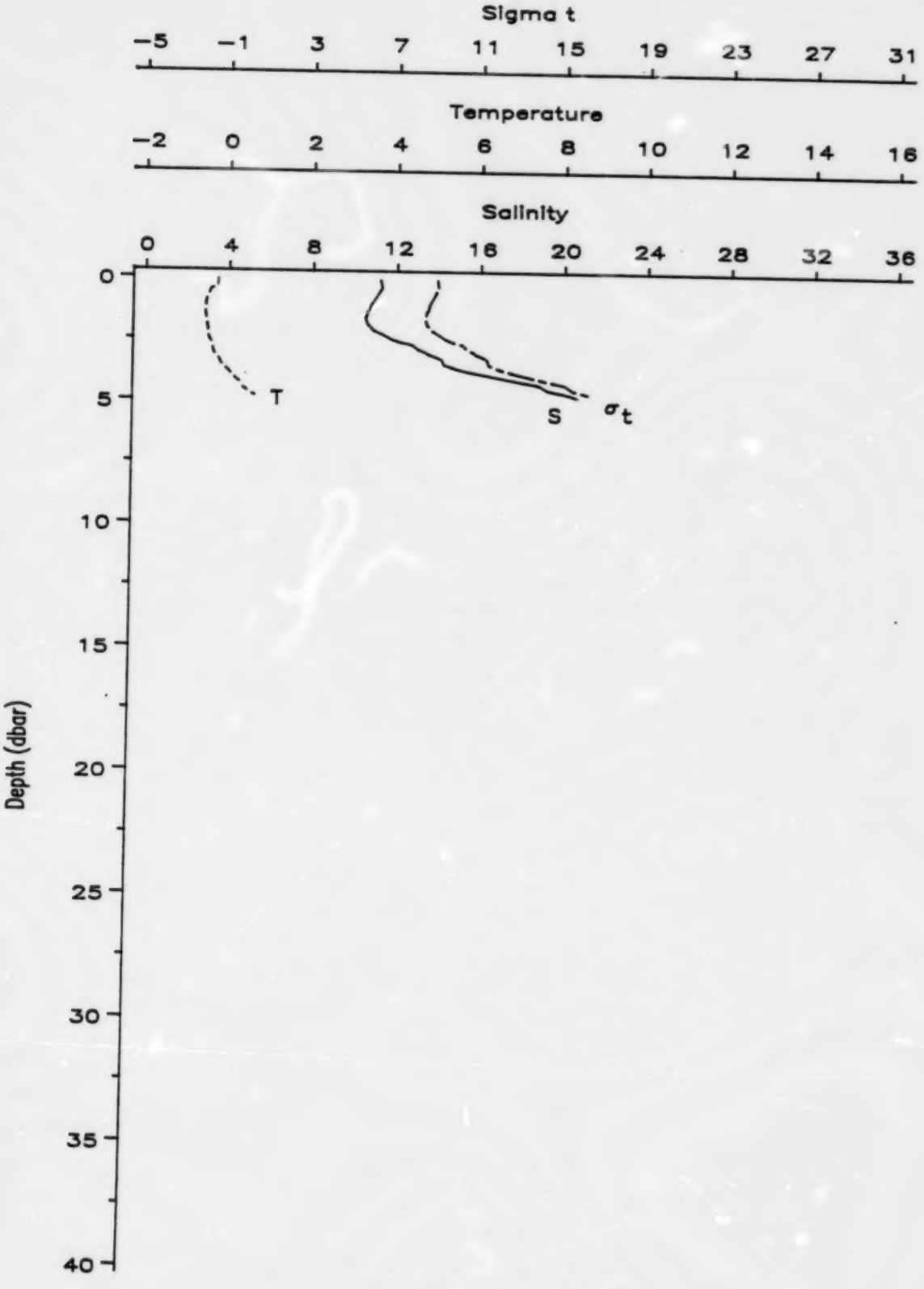

Table A9.7. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88M07, March 13, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	11.22	-0.28	1008.93	2.0	10.77	-0.53	1008.56	3.6	14.63	-0.15	1011.69
0.4	11.30	-0.30	1009.00	2.1	10.85	-0.52	1008.62	3.7	15.01	-0.09	1011.99
0.5	11.22	-0.45	1008.93	2.5	11.81	-0.49	1009.40	3.8	15.53	-0.02	1012.41
1.0	10.85	-0.57	1008.62	2.6	12.21	-0.45	1009.73	4.2	18.10	0.20	1014.48
1.1	10.77	-0.57	1008.56	2.7	12.74	-0.41	1010.15	4.3	18.82	0.29	1015.06
1.3	10.71	-0.57	1008.51	2.9	13.05	-0.40	1010.41	4.5	19.23	0.34	1015.39
1.4	10.60	-0.58	1008.42	3.0	13.38	-0.38	1010.67	4.6	19.78	0.43	1015.83
1.5	10.58	-0.58	1008.40	3.1	13.56	-0.36	1010.82	4.7	20.32	0.52	1016.27
1.6	10.51	-0.57	1008.35	3.2	13.94	-0.30	1011.13	4.8	20.63	0.62	1016.51
1.8	10.57	-0.55	1008.40	3.3	14.18	-0.26	1011.32				
1.9	10.64	-0.54	1008.45	3.5	14.27	-0.20	1011.39				

STATION: 88M10 DATE: 14 March 1988

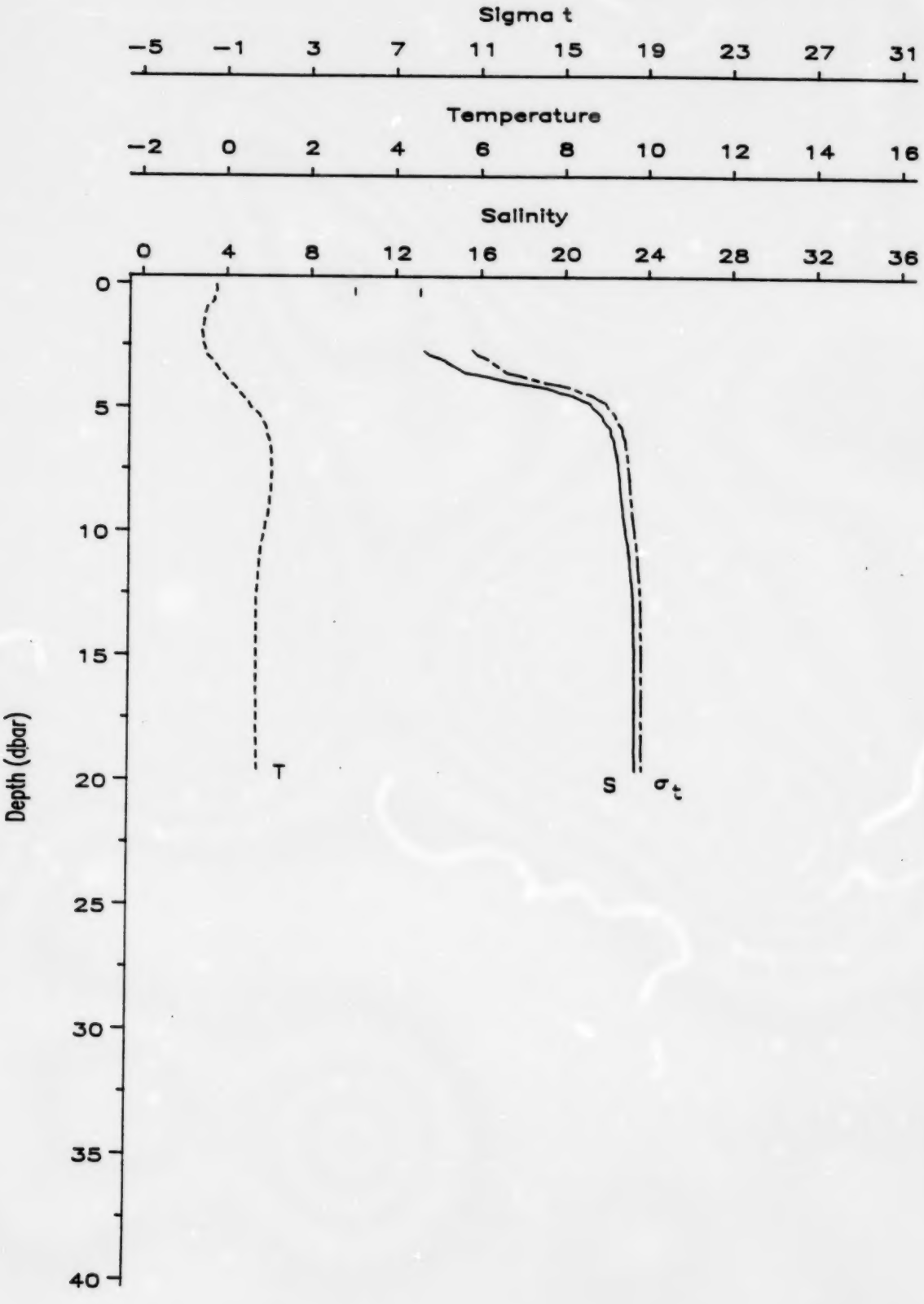

Table A9.8. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88M10, March 14, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	10.53	-0.25	1008.23	8.4	22.68	1.07	1018.15	14.3	23.34	0.73	1018.69
2.6	13.16	-0.52	1010.49	8.7	22.72	1.04	1018.18	14.5	23.34	0.73	1018.69
2.9	13.62	-0.48	1010.86	8.9	22.75	1.04	1018.21	14.6	23.34	0.73	1018.69
3.0	14.01	-0.42	1011.18	9.1	22.78	1.02	1018.23	14.7	23.36	0.73	1018.70
3.1	14.31	-0.34	1011.42	9.3	22.79	1.00	1018.24	14.8	23.36	0.73	1018.70
3.2	14.46	-0.30	1011.55	9.4	22.80	0.99	1018.25	14.9	23.36	0.73	1018.70
3.6	15.29	-0.14	1012.22	9.5	22.83	0.96	1018.27	15.1	23.36	0.73	1018.70
3.7	15.97	-0.07	1012.77	9.7	22.86	0.94	1018.30	15.2	23.36	0.73	1018.70
4.0	17.58	0.07	1014.06	9.9	22.90	0.92	1018.33	15.5	23.36	0.73	1018.70
4.1	18.48	0.14	1014.79	10.0	22.92	0.91	1018.35	15.6	23.36	0.73	1018.70
4.2	19.09	0.21	1015.28	10.2	22.94	0.89	1018.36	15.8	23.36	0.73	1018.70
4.4	19.79	0.29	1015.84	10.5	23.03	0.84	1018.44	15.9	23.36	0.73	1018.71
4.5	20.34	0.36	1016.28	10.8	23.06	0.82	1018.46	16.2	23.37	0.73	1018.72
4.7	20.84	0.47	1016.68	10.9	23.08	0.81	1018.48	16.3	23.38	0.73	1018.71
4.8	21.16	0.53	1016.94	11.0	23.10	0.81	1018.49	16.6	23.37	0.73	1018.71
5.0	21.32	0.58	1017.07	11.1	23.11	0.80	1018.50	16.7	23.37	0.74	1018.71
5.1	21.48	0.65	1017.20	11.3	23.12	0.79	1018.51	16.8	23.37	0.74	1018.71
5.3	21.74	0.79	1017.40	11.4	23.12	0.79	1018.51	16.9	23.37	0.74	1018.71
5.5	21.83	0.85	1017.47	11.5	23.15	0.78	1018.5[illegible]	17.0	23.37	0.74	1018.72
5.6	21.92	0.88	1017.54	11.7	23.17	0.77	1018.5[illegible]	17.2	23.38	0.74	1018.72
5.7	22.01	0.92	1017.62	11.9	23.20	0.77	1018.57	17.3	23.38	0.74	1018.71
5.8	22.16	0.95	1017.74	12.0	23.21	0.76	1018.58	17.5	23.37	0.75	1018.71
6.1	22.21	0.97	1017.77	12.1	23.24	0.76	1018.61	17.7	23.37	0.74	1018.72
6.2	22.28	1.00	1017.83	12.4	23.26	0.74	1018.62	17.8	23.38	0.74	1018.72
6.3	22.35	1.03	1017.89	12.5	23.27	0.74	1018.63	18.0	23.38	0.75	1018.72
6.6	22.39	1.06	1017.92	12.6	23.27	0.74	1018.63	18.3	23.38	0.75	1018.72
6.7	22.43	1.07	1017.95	12.7	23.29	0.73	1018.65	18.5	23.38	0.76	1018.71
6.9	22.48	1.08	1017.99	12.9	23.28	0.73	1018.64	18.7	23.37	0.76	1018.70
7.1	22.51	1.07	1018.01	13.0	23.30	0.73	1018.66	18.8	23.35	0.76	1018.71
7.2	22.54	1.08	1018.04	13.1	23.30	0.73	1018.66	18.9	23.37	0.76	1018.71
7.3	22.56	1.08	1018.05	13.2	23.30	0.73	1018.66	19.0	23.37	0.76	1018.73
7.4	22.55	1.08	1018.04	13.4	23.30	0.73	1018.66	19.2	23.39	0.76	1018.73
7.6	22.58	1.09	1018.07	13.5	23.32	0.72	1018.67	19.3	23.39	0.77	1018.74
7.7	22.59	1.09	1018.08	13.6	23.32	0.72	1018.67	19.4	23.40	0.77	1018.73
7.8	22.62	1.08	1018.10	13.7	23.33	0.73	1018.68	19.5	23.39	0.78	1018.74
7.9	22.63	1.08	1018.11	14.0	23.31	0.73	1018.66	19.6	23.40		
8.2	22.66	1.07	1018.13	14.2	23.33	0.73	1018.68				

STATION: 88M11 DATE: 14 March 1988

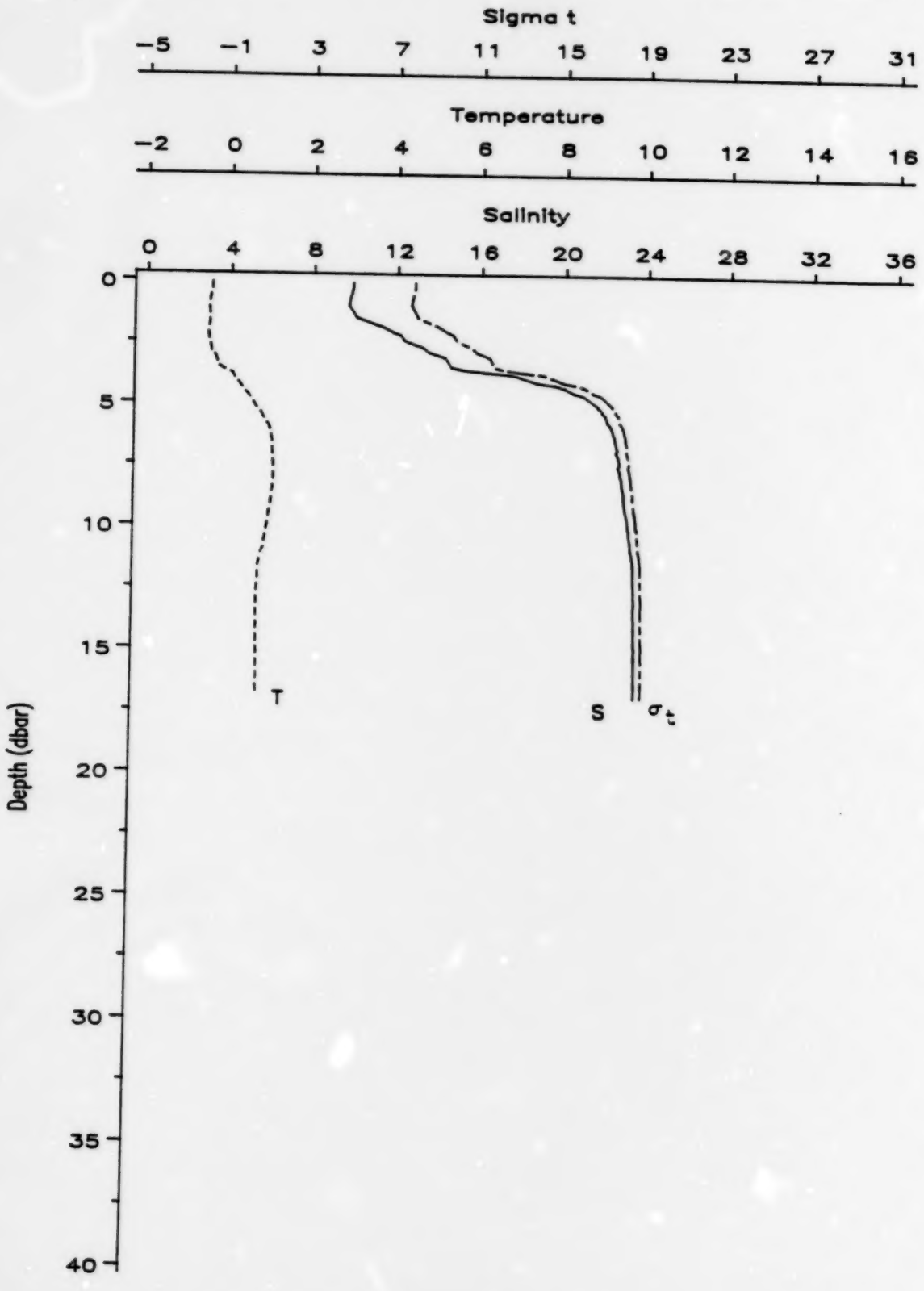

Table A9.9. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88M11, March 14, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	9.88	-0.46	1007.84	5.8	22.17	0.89	1017.74	11.5	23.34	0.72	1018.69
0.3	9.87	-0.46	1007.83	5.9	22.23	0.94	1017.79	11.6	23.35	0.71	1018.70
0.4	9.84	-0.47	1007.81	6.2	22.35	0.98	1017.89	11.7	23.35	0.71	1018.70
0.5	9.82	-0.47	1007.79	6.3	22.40	1.00	1017.93	12.1	23.36	0.71	1018.70
0.7	9.73	-0.51	1007.72	6.4	22.41	1.01	1017.93	12.2	23.37	0.71	1018.71
1.0	9.66	-0.53	1007.66	6.8	22.53	1.04	1018.03	12.6	23.39	0.69	1018.73
1.5	10.05	-0.51	1007.98	6.9	22.46	1.03	1017.97	12.8	23.39	0.68	1018.73
1.6	10.36	-0.51	1008.23	7.1	22.57	1.04	1018.06	13.0	23.41	0.68	1018.75
1.8	11.04	-0.52	1008.78	7.3	22.61	1.05	1018.09	13.1	23.41	0.68	1018.75
1.9	11.37	-0.54	1009.04	7.4	22.63	1.05	1018.11	13.3	23.39	0.68	1018.73
2.1	11.82	-0.55	1009.41	7.5	22.56	1.06	1018.05	13.5	23.40	0.68	1018.74
2.2	12.15	-0.54	1009.67	7.7	22.66	1.06	1018.13	13.7	23.41	0.68	1018.75
2.4	12.33	-0.53	1009.82	7.9	22.69	1.06	1018.16	13.8	23.43	0.68	1018.76
2.5	12.54	-0.52	1009.99	8.0	22.74	1.06	1018.20	14.0	23.42	0.69	1018.75
2.6	12.91	-0.50	1010.29	8.2	22.76	1.05	1018.21	14.1	23.43	0.68	1018.76
2.7	13.22	-0.48	1010.54	8.4	22.79	1.05	1018.24	14.2	23.43	0.69	1018.76
2.9	13.52	-0.47	1010.78	8.6	22.85	1.02	1018.29	14.6	23.43	0.69	1018.76
3.1	14.27	-0.36	1011.39	8.8	22.86	1.02	1018.29	14.7	23.44	0.69	1018.77
3.5	14.60	-0.30	1011.66	8.9	22.88	1.01	1018.31	14.8	23.44	0.70	1018.77
3.6	15.10	-0.20	1012.06	9.0	22.88	1.00	1018.31	14.9	23.46	0.69	1018.79
3.7	16.24	-0.06	1012.98	9.1	22.90	1.00	1018.33	15.1	23.45	0.70	1018.78
3.8	17.55	0.05	1014.04	9.3	22.93	0.98	1018.35	15.2	23.45	0.70	1018.78
4.1	18.68	0.14	1014.95	9.4	22.96	0.96	1018.38	15.3	23.45	0.70	1018.78
4.2	19.51	0.22	1015.62	9.5	23.00	0.95	1018.41	15.4	23.46	0.70	1018.79
4.3	19.95	0.26	1015.97	9.7	23.04	0.94	1018.44	15.5	23.46	0.70	1018.79
4.5	20.41	0.33	1016.34	9.9	23.06	0.92	1018.46	15.7	23.46	0.70	1018.79
4.6	20.84	0.41	1016.69	10.0	23.08	0.91	1018.47	15.9	23.46	0.71	1018.79
5.0	21.52	0.57	1017.23	10.1	23.12	0.90	1018.51	16.2	23.46	0.71	1018.79
5.1	21.61	0.61	1017.30	10.3	23.12	0.89	1018.51	16.4	23.46	0.71	1018.79
5.2	21.74	0.65	1017.41	10.6	23.19	0.85	1018.56	16.5	23.47	0.70	1018.79
5.3	21.79	0.70	1017.44	10.9	23.21	0.83	1018.58	16.8	23.46	0.71	1018.79
5.4	21.93	0.76	1017.56	11.1	23.27	0.77	1018.63	16.9	23.46	0.72	1018.78
5.7	22.04	0.84	1017.64	11.4	23.33	0.74	1018.68				

STATION: 88M09 DATE: 15 March 1988

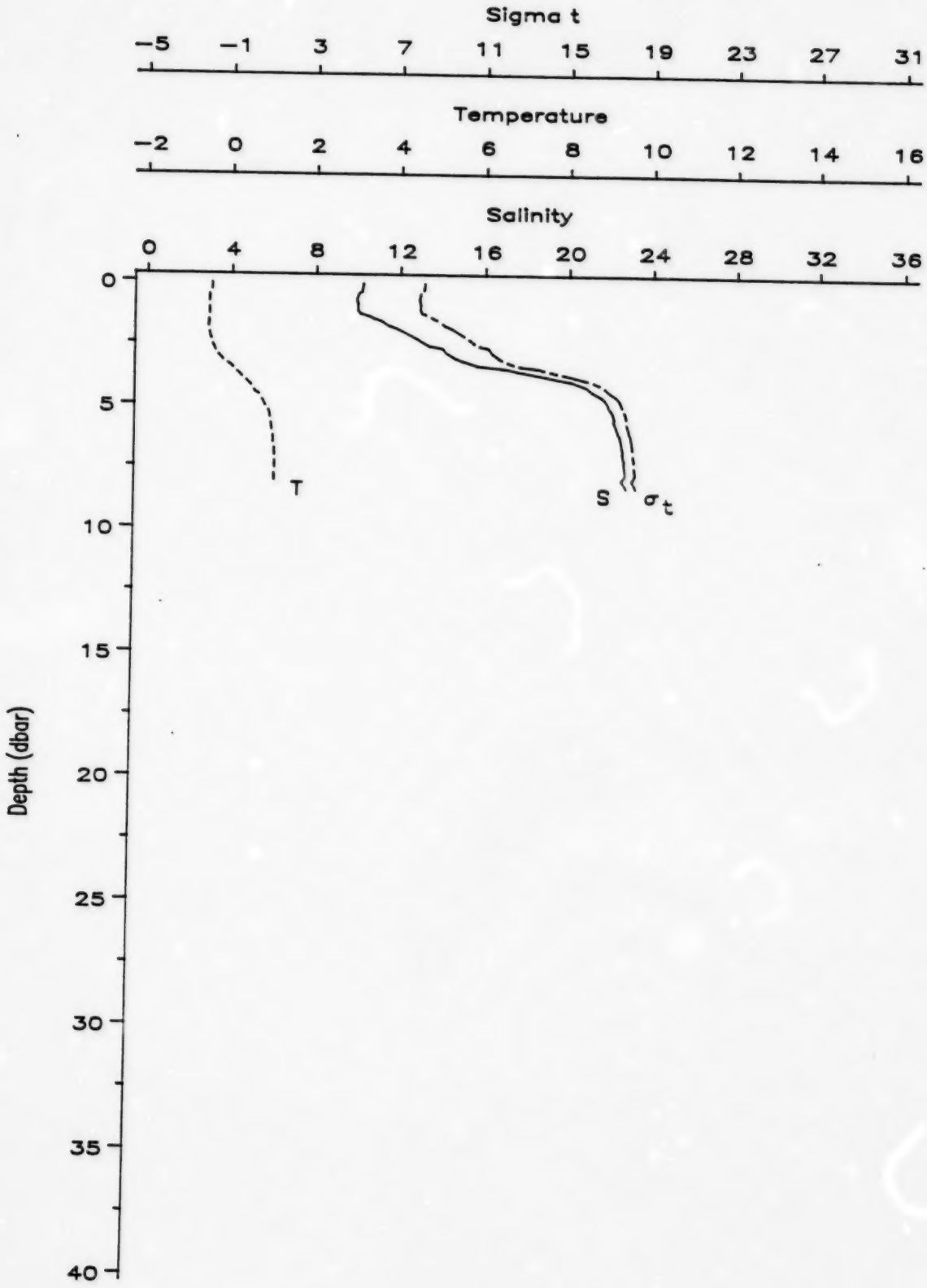

Table A9.10. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88M09, March 15, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	10.25	-0.48	1008.14	3.0	14.44	-0.32	1011.53	6.1	22.36	0.98	1017.89
0.3	10.21	-0.48	1008.11	3.1	14.61	-0.26	1011.67	6.2	22.44	0.99	1017.96
0.4	10.20	-0.50	1008.10	3.2	14.94	-0.21	1011.93	6.3	22.46	1.01	1017.97
0.5	10.03	-0.54	1007.96	3.4	15.67	-0.04	1012.53	6.5	22.52	1.01	1018.02
0.7	9.95	-0.54	1007.90	3.5	16.93	0.03	1013.54	6.7	22.55	1.02	1018.05
0.8	9.95	-0.55	1007.90	3.6	17.52	0.08	1014.02	6.8	22.60	1.04	1018.09
0.9	10.00	-0.54	1007.94	4.0	20.07	0.34	1016.07	6.9	22.58	1.04	1018.07
1.2	10.01	-0.54	1007.94	4.2	20.77	0.46	1016.63	7.1	22.62	1.05	1018.10
1.3	10.13	-0.54	1008.04	4.4	21.09	0.53	1016.89	7.2	22.66	1.05	1018.13
1.4	10.50	-0.53	1008.34	4.5	21.30	0.58	1017.05	7.3	22.64	1.05	1018.12
1.5	10.77	-0.54	1008.56	4.6	21.54	0.69	1017.24	7.4	22.66	1.05	1018.13
1.6	11.09	-0.55	1008.82	4.7	21.68	0.70	1017.36	7.7	22.71	1.05	1018.17
1.8	11.47	-0.56	1009.12	4.8	21.78	0.74	1017.44	7.8	22.71	1.04	1018.17
1.9	11.83	-0.56	1009.42	5.1	21.95	0.83	1017.57	7.9	22.62	1.04	1018.10
2.3	12.77	-0.51	1010.18	5.2	22.04	0.88	1017.64	8.0	22.53	1.04	1018.03
2.5	13.16	-0.47	1010.49	5.3	22.10	0.91	1017.69	8.2	22.71	1.05	1018.17
2.6	13.39	-0.45	1010.68	5.5	22.17	0.93	1017.74	8.3	22.76	1.05	1018.21
2.7	14.01	-0.42	1011.18	5.6	22.13	0.94	1017.71				
2.9	14.22	-0.37	1011.35	5.9	22.29	0.97	1017.84				

STATION: 88M08 DATE: 15 March 1988

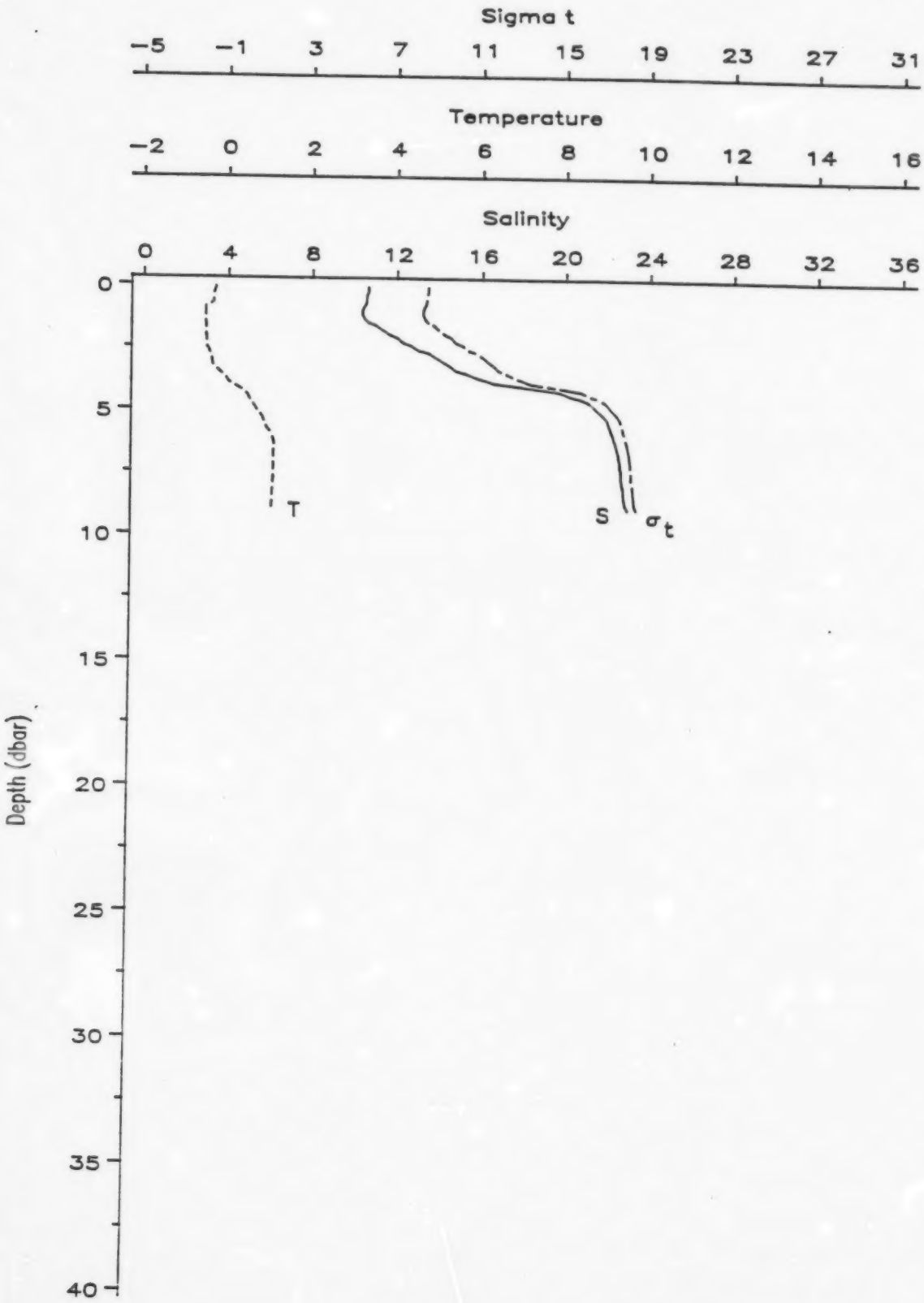

Table A9.11. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88MO8, March 15, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.1	10.65	-0.31	1008.47	3.1	14.26	-0.38	1011.38	6.1	22.30	1.06	1017.84
0.3	10.65	-0.34	1008.47	3.2	14.46	-0.38	1011.54	6.2	22.36	1.08	1017.89
0.4	10.58	-0.38	1008.41	3.4	14.78	-0.27	1011.80	6.3	22.39	1.10	1017.92
0.7	10.55	-0.36	1008.39	3.5	15.16	-0.20	1012.11	6.7	22.52	1.09	1018.02
0.8	10.51	-0.44	1008.35	3.7	15.80	-0.07	1012.63	6.8	22.53	1.09	1018.03
0.9	10.43	-0.55	1008.28	3.9	16.61	0.01	1013.28	6.9	22.56	1.09	1018.05
1.0	10.38	-0.55	1008.24	4.0	17.69	0.12	1014.15	7.1	22.59	1.09	1018.08
1.2	10.37	-0.55	1008.23	4.1	18.72	0.23	1014.98	7.2	22.59	1.09	1018.08
1.4	10.52	-0.56	1008.36	4.2	19.60	0.33	1015.69	7.3	22.63	1.09	1018.11
1.5	10.66	-0.55	1008.47	4.4	20.28	0.47	1016.23	7.4	22.64	1.09	1018.12
1.6	10.97	-0.54	1008.72	4.5	20.76	0.50	1016.62	7.6	22.65	1.09	1018.12
1.8	11.32	-0.54	1009.00	4.6	21.04	0.53	1016.84	7.7	22.65	1.09	1018.12
2.0	11.69	-0.54	1009.30	5.1	21.74	0.73	1017.40	7.8	22.68	1.08	1018.15
2.1	12.01	-0.53	1009.56	5.3	21.96	0.83	1017.58	8.0	22.73	1.08	1018.19
2.3	12.28	-0.52	1009.78	5.5	22.04	0.86	1017.64	8.5	22.80	1.06	1018.25
2.4	12.65	-0.52	1010.08	5.6	22.09	0.88	1017.68	8.7	22.83	1.06	1018.27
2.5	12.82	-0.52	1010.22	5.7	22.14	0.92	1017.72	8.8	22.89	1.05	1018.32
2.6	13.03	-0.47	1010.39	5.8	22.16	0.96	1017.73	8.9	22.95	1.05	1018.37
2.7	13.49	-0.45	1010.76	5.9	22.25	1.02	1017.81				

STATION: 88M12 DATE: 16 March 1988

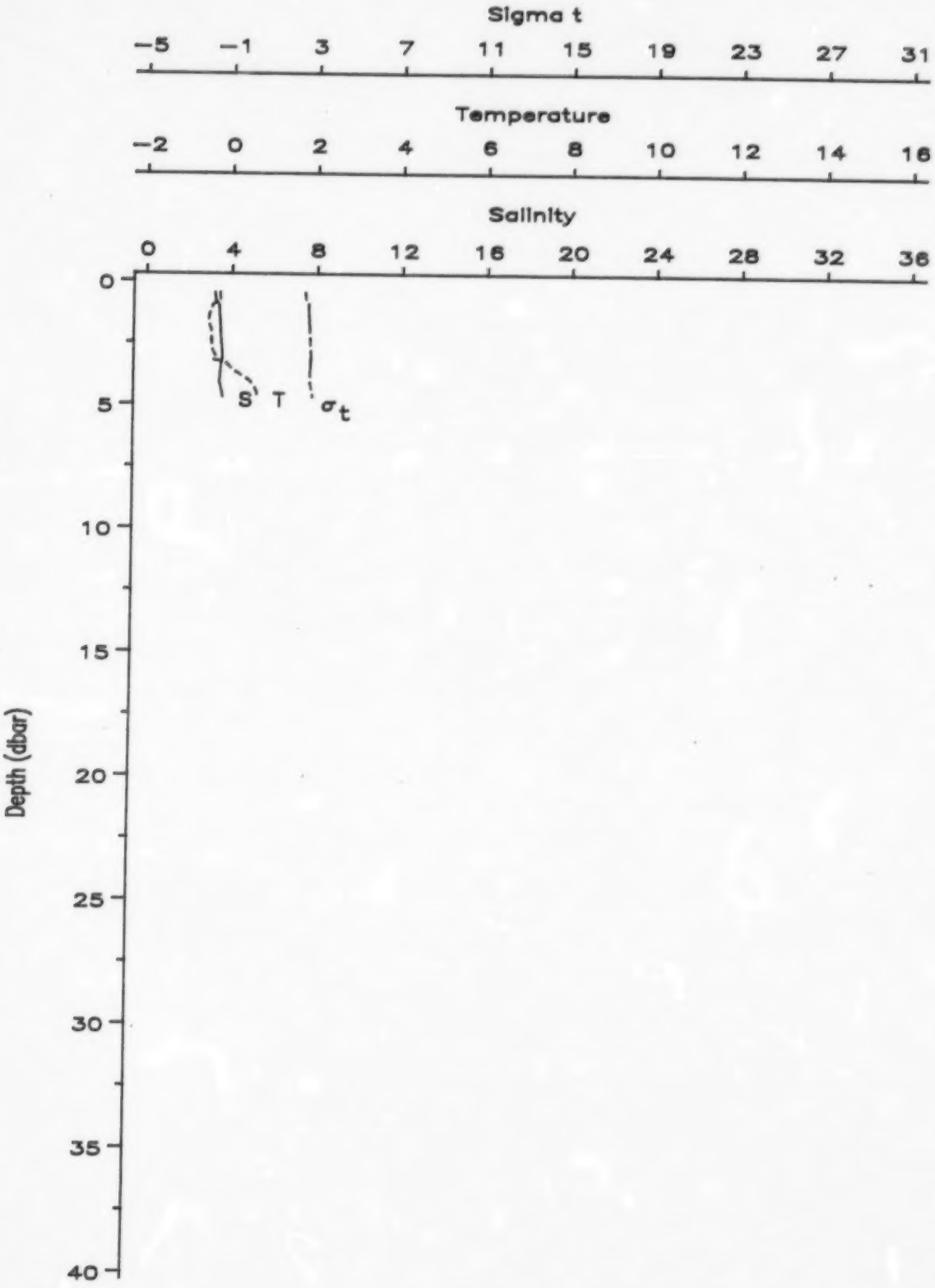

Table A9.12. Salinity, temperature (C) and density (kg.m**-3) data by depth (dbar) for station 88M12, March 16, 1988.

Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density	Depth	Salinity	Temperature	Density
0.5	3.19	-0.28	1002.43	1.9	3.47	-0.51	1002.64	3.7	3.46	0.10	1002.67
0.8	3.24	-0.28	1002.47	2.0	3.47	-0.48	1002.64	4.0	3.44	0.38	1002.67
0.9	3.32	-0.39	1002.53	2.1	3.48	-0.49	1002.65	4.1	3.42	0.45	1002.65
1.0	3.40	-0.46	1002.59	2.4	3.50	-0.48	1002.67	4.5	3.55	0.59	1002.77
1.1	3.40	-0.47	1002.59	2.8	3.54	-0.46	1002.70	4.6	3.55	0.59	1002.77
1.4	3.42	-0.54	1002.60	3.1	3.56	-0.37	1002.72	4.7	3.58	0.58	1002.79
1.6	3.44	-0.55	1002.62	3.2	3.54	-0.43	1002.70				
1.7	3.45	-0.55	1002.62	3.3	3.51	-0.17	1002.70				